SERVICE MANUAL

LE-1 CHASSIS

AEP

MODEL

COMMANDER DEST.

KL-37W1

RM-838 **AEP**

KL-37W1K

RM-838

KL-37W1U

OIRT

RM-838 UK MODEL

COMMANDER DEST.

KL-50W1

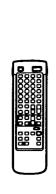
RM-838

KL-50W1K

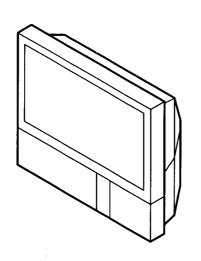
RM-838 **OIRT**

RM-838 KL-50W1U

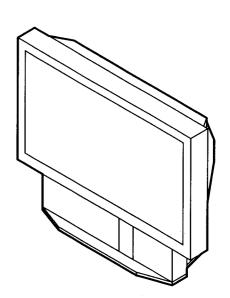
UK



RM-838



KL-37W1/37W1K/37W1U







Specifications

This product complies with the EU Directive 89/336/EEC.

Television system	B/G/H, D/K, I, L
Colour system	PAL/SECAM
	NTSC 3.58/4.43 (VIDEO IN)
Channel coverage	See "Receivable channels and
-	channel displays" at the bottom.
Projected picture size	37 inches (KL-37W1)
	Approx. 94 cm diagonally
	50 inches (KL-50W1)
	Approx. 127 cm diagonally
Terminals	
Door	-∰121-pin Euro connector
Rear	(CENELEC standard) inputs for audio and video signals

2/- 221-pin Euro connector - inputs for audio and video signals

- outputs of TV video and audio

- inputs for S video

- inputs for RGB

signals

 outputs for audio and video signals (selectable)

→ 4/ → 3 4 21-pin Euro connector - inputs for audio and video signals

- inputs for S video

- outputs for audio and video signals (monitor out)

-S 2, -S 4 S video inputs

- 4 pin DIN

→ Audio inputs (L, R) - phono jacks
 → S video output 4-pin DIN
 → Audio outputs - phono jacks
 → Audio outputs (variable)-phono

jacks

Front 3 video input - phono jack

-⊕ Audio inputs - phono jacks -⑤ 3 S video input - 4-pin DIN Ω Headohone iack: stereo miniiack

Sound output

 2×5 W (music power)

Centre 1 × 20 W Power consumption 170 W

Dimensions (W \times H \times D) 920 \times 825 \times 390 mm

(KL-37W1)

1,230 × 1,055 × 550 mm

(KL-50W1)

29 kg (KL-37W1) 43 kg (KL-50W1)

Supplied accessories

See page 6.

Other features

Mass

Digital comb filter (High resolution)

PAP (Picture-and-picture)

FASTEXT 100 Hz Digital Plus Graphic Equaliger

Design and specifications are subject to change without notice.

Receivable Channels and Channel Displays

	Receivable channels	Indication on the screen
B/G/H	E212 2169	C02 C03 C04C12 C21C69
CABLE TV (1)	S141	S01 S02S41
CABLE TV (2)	S01S05 M1M10	S42S46 S01S10
, -	U1U10	S11S20
ITALIA	ABCDEFGHH1 H22169	C11C69
D/K	R01R12 R21R69	C02C12 C21C69
CABLE TV (1)		S01 S02S41
CABLE TV (2)		S42 S43S46
CABLE TV	BQ, S2141	S02, S03S17,
		S21S41
L	F2F10 F21F69	C01C12 C21C69
1	B21B68	C21C68

TABLE OF CONTENTS

Sec	tion	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
1.	GEN	ERAL	4	4-3.	Circuit Boards Location	40
				4-4.	Schematic Diagrams and Printed	
2.	DISA	SSEMBLY			Wiring Boards	40
	2-1.	Rear Cover Removal	. 18	(1)	Schematic Diagrams of F1, F2,	
	2-1.	Chassis Assy Removal			G, H, J, TA and TB Boards	41
	2-3.	Service Position		(2)	Schematic Diagram of A (1/3) Board	51
	2-3. 2-4.	F2 Board and F2 Bracket Removal		(3)	Schematic Diagram of A (2/3) Board	55
	2-4. 2-5.			(4)	Schematic Diagram of A (3/3) Board	57
	2-5. 2-6	BB, B1 and J Boards Removal		(5)	Schematic Diagram of B1 (1/3) Board	59
	2-0 2-7.	Filter Removal		(6)	Schematic Diagram of B1 (2/3) Board	62
	2-7. 2-8.			(7)	Schematic Diagram of B1 (3/3) Board	65
	2-8. 2-9.	H and F1 Boards Removal		(8)	Schematic Diagram of C (1/2) Board	69
			. 20	(9)	Schematic Diagram of C (2/2) Board	73
	2-10-1	Screen Frame Removal	. 20	(10)	Schematic Diagram of BB (1/3) Board	. 76
	2 10 2	[KL-37W1/37W1K/37W1U]	. 20	(11)	Schematic Diagram of BB (2/3) Board	. 79
	2-10-2	2. Screen Frame Removal	. 20	(12)	Schematic Diagram of BB (3/3) Board	82
	0.11	[KL-50W1/50W1K/50W1U]		4-5.	Semiconductiors	84
	2-11.	C Board Removal				
	2-12.	Optical Unit Removal	. 21	5. EXPI	LODED VIEWS	
2	CIPC	CUIT ADJUSTMENTS		5-1.	Chassis [KL-37W1/37W1K/37W1U]	86
J.				5-2.	Front Cover [KL-37W1/37W1K/37W1U]	87
	3-1.	Electrical Adjustments		5-3.	Screen Mirror Block and Optics Unit	
	3-2.	Test Mode			[KL-37W1/37W1K/37W1U]	88
	3-3.	Error Monitor and Detection		5-4.	Chassis [KL-50W1/50W1K/50W1U]	89
	3-4.	Registration Adjustment	. 28	5-5.	Front Cover [KL-50W1/50W1K/50W1U]	
				5-6.	Screen Mirror Block and Optics Unit	
4.	DIAG	GRAMS			[KL-50W1/50W1K/50W1U]	91
	4-1.	Block Diagrams	. 29		·	
	4-2.	Frame Schematic Diagram	. 38	6 FLF	CTRICAL PARTS LIST	92

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

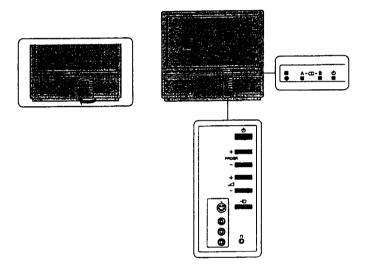
SAFETY-RELATED COMPONENT WARNING!! COMPONENTS IDENTIFIED BY SHADING AND MARK
ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

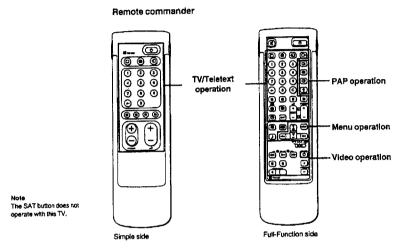
Overview

This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set-front



Symbol	Name	Refer to page
b	Main power switch	14
ტ	Standby Indicator	14
A-CD-B	Stereo A/B indicators	16
PROGR+/-	Programme	14
Δ+ /-	Volume buttons	14
Ð	input select buttons	15
Ω	Headphones jack	23
—603,—⊙3,—⊙3	input jacks (\$ video/video/audio)	24



TV/Teletext operation

C. hal	Name	Refer to page
Symbol		
<	Mute on/off button	15
O	Standby button	14
0	TV power pn/TV mode selector button	14
②	Teletext button	15
Ð	Input mode selector	15
O +	Output mode selector	24
1,2,3,4,5,6, 7,8,9 and 0	Number buttons	14
-/-	Double-digit entering button	14
¢	Direct channel entering button	10
⊿ +/−	Volume control button	14
PROGR+/~	Programme selectors	14
8	Teletext page access buttons	20
•	Picture adjustment button	16
)	Sound adjustment button	16
•	On-screen display button	15
⊕	Teletext hold button	20
©	Time display button	15
***	Fastext buttons	20
⊖	"Freeze" button	15
111	Button to change Screen Forms	15

PAP (Picture-and-picture) operation

Symbol	Name	Refer to page	
0	PAP on/off button	18	
t	PAP source selector	18	
3	Swap button	18	
Œ	PAP freeze button	18	

Menu operation

Symbol	Name	Refer to page
MENU	Menu on/off button	7
Δ+/∇-	Select buttons	7
OK	OK(confirming)button	7
-	Back button	7

Video operation

1000 0001211011				
Symbol	Name	Refer to page		
VTR1/2/3, VIDP	Video equipment selector	26		
44 ► ►► ■ I • ∪ PROGR +/-	Video equipment operation buttons	26		

4

GB

Step 1 Preparation

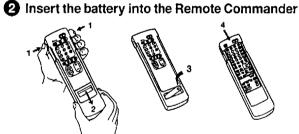


1 Check the supplied accessories

When you've taken everything out of the carton, check that you have these ilems:

- RM-838 Remote Commander
- · One IEC designation R6 battery
- Lamp (1) Wrench (1)



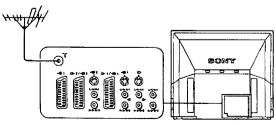


Note: Always remember to dispose of used batteries in an enviromental triendly

Check the correct Refit the outside cover polarities. making sure that the Full-Function side is visible to use the menu in step 2.

Connect the aerial

Remove the cover.



Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the Tr socket at the rear of the TV.

Step 2 Tuning in to TV Stations





Once you have set up the TV, you can choose the language of the menu. Then, you should preset the channels (up to 100 channels) by choosing either the automatic or manual method. The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one.

Before you begin

- Check that the Full-Function side of the Remote Commander is
- Locale Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

Choose a language

- Press O on the TV. The TV will switch on. If the standby indicator on the TV is lit, press O or a number button on the Remote Commander.
- The LANGUAGE menu appears. (See Fig. 1.)



3 Select the language you want with △ + or ∇ - and press OK.



GB

Fig. 1

To go back to main Keep pressing -To go back to the normal TV picture Press MENU. Normal TV picture will be restored after one

minute if menu functions are not selected.

Press MENU to stop the

function.

Note on the Demo function If you choose Dema in the installation menu, you can see a sequential demonstration of the menu functions.

2 Display the menu

Press MENU.

The main menu appears. (See Fig. 2.) Using $\triangle + \text{or } \nabla - \text{select the symbol} \stackrel{\text{def}}{=} \text{and press OK}$.

Now, choose one of the methods described overleaf:

"Preset Channels Automatically"

"Preset Channels Manually"



Fig. 2

- 1 Select the symbol for "Preset" with Δ+ or ∇- and press OK. The PRESET menu appears. (See Fig. 3.)
- 2 Select "Auto Programme" with ∆+ or ∇- and press OK. The AUTO PROGRAMME menu appears. (See Fig. 4.)
- 3 Press OK.
 - Select if necessary the TV broadcast system (B/G for Western European or D/K for Eastern European countries) with ∆+ or ∇and press OK. The first element of the "PROG" number will be highlighted.
- 4 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with △+ or ∇- or the number buttons (e.g., For "04," select "0"

The second element of "PROG" will be highlighted.

- 5 Select the second element of the double-digit number with $\Delta +$ or ∇- or the number buttons (e.g., For "04," select "4" here) (See Fig. 5) and press OK.
- Select "C" or "S" with $\Delta + \text{ or } \nabla \text{ and press OK}$. The automatic channel presetting starts. When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons. Press menu to restore normal TV picture.



you want to preset

channels one by one.

You may also allocate

programme numbers to

various video input

If you have made a

the previous position

To return to the main

Keep pressing -.

To go back to the

Press MENU.

normal TV picture

To tune in a channel by

enter three digits using

the number buttons.

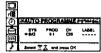
frequency After selecting F in step 6.

SCUTCES.

mistake Press - to go back to

menu

Flg. 3



Fla. 4



WAG THE CES

Use this method if there Preset channels manually are only a few channels Select the symbol ☐ for "Preset" with △+ or ∇- and press OK. in your area to preset or if

source (EXT)) with $\Delta + \text{ or } \nabla -$.

2 Select "Manual Programme Preset" with △+ or ∇- and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 3 Using Δ + or ∇ -, select the programme position (number button) to

The PRESET menu appears. (See Fig. 6.)

- which you want to preset a channel, and press OK. 4 Select, if necessary the TV broadcast system or a video input
- 5 Then press OK. The CH position will be highlighted. (See Fig. 8.)
- 6 Using ∆+ or ∇-, select C (to preset a regular channel), S (cable channel) or F (to tune in by frequency) and press OK. The first element of the "CH" number will be highlighted. If you have selected EXT in step 5, select the video input source with ∆+ or ∇-. (See Fig. 9.)

There are two ways to preset channels, If you know the channel number, go to step "7-Manual,"

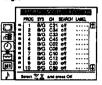
If you don't know the channel number, go to step "7-Search."

7 Manual

- -a Select the first element of the "CH" number with ∆+ or ∇- or the number buttons and press OK. The second element of the "CH" number will be highlighted.
- -b Select the second element of the number with Δ + or ∇ or the number buttons. The selected number appears. (See Fig. 10.)
- -c Press OK
- The "SEARCH" position is highlighted and the selected channel is now stored. (See Fig. 11.)
- -d Press OK until the cursor appears by the next programme position.
- -e Repeat steps 3 to 7 to preset other channels.

- -a Press OK repeatedly until the colour of the SEARCH position
- Start searching for the channel with Δ+ (up) or ∇- (down). The CH position changes colour. (See Fig. 12.) The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)
- -c Press OK if you want to store this channel. If not, press △+ or ▽to continue channel searching.
- -d Press OK until the cursor appears by the next programme position.
- -e Repeat steps 3 to 7 to preset other channels.





Flg.7







Flg. 10



Flg. 11

#2 B/G C35 eff -----

Flg. 12

2 B/G C50 AT----

Fig. 13

To go back to the main Keep pressing -.

To stop automatic channel presetting Press - on the Remote

Notes

ത

· After presetting the channels automatically. you can check which channels are stored on which programme positions. For details, see "Displaying the Programme Table" on page 15.

· You can sort the programme positions to have them appear on screen in the order you like. For details, see Sorting Programme Positions" on page 10.

0000

00000 000000

•

This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

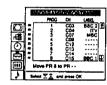
Before you begin

- Check that the Full Function side of the Remote Commander is visible.
- Locate the Menu operation buttons.

Sorting Programme Positions

preferable order.

- Press MENU to display the main menu.
- The PRESET menu appears.
- Select "Programme Sorting" with $\Delta +$ or $\nabla -$ and press OK. The PROGRAMME SORTING menu appears, (See Fig. 14.)
- Using ∆+ or ∇-, select the programme position you want to move to another and press OK.



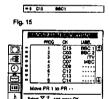


Fig. 16

With this function, you can sort the programme positions to a

- Select the symbol $\stackrel{\triangle}{=}$ for "Preset" with $\triangle +$ or $\nabla -$ and press OK.
- The colour of the selected position changes. (See Fig. 15.)
- Using Δ + or ∇ -, select the programme position to which you want to move the channel of the programme position selected in step 4 and press OK. Now the programme positions have been sorted. (See Fig. 16.)
- 6 Repeat steps 4 and 5 to sort other programme positions.

INSTALLATION

Using "Further Programme Preset"

Using the menu "further Programme Preset" you can

- a) in case of a strong local aerial signal (striped picture) attenuate the signal individually for each programme position (RF attenuator).
- b) individually adjust and store the volume level of each channel
- in case of a strong sound signal (distorted sound), attenuate the sound signal for each programme position.
- d) use the manual fine tuning to obtain a better picture reception, if the picture is distorted. Normally the AFT (automatic fine tuning) is operating.
- 1 Press MENU to display the main menu.
- 2 Select the symbol for "Preset" with ∆+ or ∇- and press OK. The PRESET menu appears.
- Select "Installation" with ∆+ or ∇- and press OK. The INSTALLATION menu appears.
- Select "Further Programme Preset" with $\Delta +$ or $\nabla -$ and press OK. The FURTHER PROGRAMME PRESET menu appears (See Fig.
- 5 Using ∆+ or ∇- select the desired programme position and press OK once to select a) "ATT" (RF Altenuator), twice to select b) "VOL" (Volume offset), three times to select c) "IN-AMP" (Input Amplifier) or four times to select d) AFT (Automatic Fine Tuning) The selected item changes colour.

To adjust or change:

a) RF attenuator (ATT)

Using Δ + or ∇ - select "On" for the selected programme position. Press OK to confirm the selection. Repeat step 5 to attenuate other programme positions.

b) Volume offset (VOL)

Using $\Delta +$ or $\nabla -$ you can adjust the volume level for the selected programme position within a range form -7 to +7. Press OK to store the volume level. Repeat step 5 to set the volume level for other programme positions.

c) IN-AMP (input amplifier)

Using $\Delta +$ or $\nabla -$ select "Off" for the selected programme position. Press OK to confirm the selection. Repeat step 5 to switch off the input amplifier for other programme positions.

To reactivate AFT

(Automatic Fine

Repeat from the

beginnig and select "ON"

Yuning)

in step 5.

Using Δ + or ∇ - you can fine-tune the channel within a range from -15 to +15. Press OK to store the fine-tuned level. Repeat step 5 to fine-tune the other channels.

6 Press MENU to return to the normal TV mode.



GB

For higher programme positions The display scrolls

automatically.

If you have made a Press - to go back to the previous position

To go back to main Keep pressing -.

To go back to the normal TV picture Press MENU.

10

To go back to main menu Keep pressing

To go back to the normal TV picture Press MENU.



 ∞

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with PROGR+/- buttons. However, the skipped programmes may still be called up when you use the number buttons.

- 1 Press MENU to display the main menu.
- 2 Select the symbol ☐ for "Preset" with △+ or ∇- and press OK. The PRESET menu accears.
- 3 Select "Manual Programme Preser" with ∆+ or ∇- and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 18.)
- 4 Using ∆+ or ∇-, select the programme position which you want to skip and press OK. The "SYS" position changes colour.
- 5 Press Δ+ or ∇- until "---" appears in the SYSTEM position. (See Fig. 19.)
- Press OK. (See Fig. 20.) When you select programmes using the PROGR +/- buttons, the programme position will be skipped.
- 7 Repeat steps 4 to 6 to skip other programme positions.

PROGR + -



Flg. 18

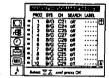


Flg. 20

Captioning a Station Name

Programme names are usually automatically taken from Teletext if available, You can also "name" a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for "Preset" with △+ or ∇- and press OK. The PRESET menu appears.
- Select "Manual Programme Preset" with △+ or ∇- and press OK.
 The MANUAL PROGRAMME PRESET menu appears. (See Fig. 21.)
- 4 Using ∆+ or ∇−, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- 5 Select a letter or number with ∆+ or ∇- and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select - and press OK. (See Fig. 22.)
- 6 After selecting all the characters, press OK repealedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 23.)
- 7 Repeat steps 5 and 6 to caption names for other channels.



Flg. 21

# 2 MG	C 23	ar 14
lg. 22		
·9·		

m2 B/G C21 ex SONY

Fig. 23

PARENTALLOCK

If you try to select a programme that has been blocked. The message "LOCKED" appears on the blank TV screen.

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- Select the symbol ☐ for "Preset" with △+ or ∇-- and press OK. The PRESET menu appears.
- 3 Select "Parental Lock" with △+ or ∇- and press OK. The PARENTAL LOCK menu appears. (See Fig. 24.)
- 4 Using ∆+ or ∇−, select the programme position you want to block and press OK. The symbol a appears in front of the programme number indicating that this programme is now blocked. (See Fig. 25.)
- 5 Repeat step 4 to block other programme positions.

Cancelling blocking

- On the PARENTAL LOCK menu, select the programme position you want to unblock with ∆+ or ∇−.
- Press OK.

The symbol & disappears indicating that the blocking has been cancelled.



You can tune in to a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

- 1 Press C on the Remote Commander, For cable channels, press C twice.
 The Indication *C** / *S** for cable phagoging appears on the access.
- The indication "C" ("S" for cable channels) appears on the screen (See Fig. 26.)
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. However, the channel will not be stored.



Flg. 24





Fig. 26

Operating Instructions

Watching the TV



If no picture appears when you depress O on the TV and if the standby indicator on the TV is III, the TV is in standby mode. Press O or one of the number buttons to switch it on,

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander

Switching the TV on and off

Switching on Depress & on the TV.

Switching off temporarily

Press & on the Remote Commander. The TV enters standby mode and the standby indicator on the front of the TV lights up in red.

To switch on again

Press O, PROGR +/--, or one of the number buttons on the Remote Commander.

Switching off completely

Depress 0 on the TV and indicator on the front of the TV lights up

Selecting TV Programmes

Press PROGR +/- or press the number buttons.

To select a double-digit number

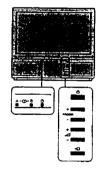
Press /-. then the numbers. For example, If you want to choose 23, press -/-, 2 and 3.

Adjusting the Volume

Press 4 +/-.

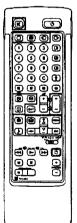
Operating the TV Using the **Buttons on the TV**

To select the programme number, press the PROGR +/- buttons. To adjust the volume, press the \(\Delta +/-\) buttons. To select the video input picture, press the - button. To reset picture and sound controls to the factory preset level (RESET function), press PROGR +/- buttons simultaneously.



For details of the teletext operation, rater to page 20.

For details of the video input picture, refer to page 24.



Watching teletext Press @ to view the teletext.

2 For teletext operation, enter a 3-digit page number with the number buttons to select a page.

Watching Teletext or Video Input

For fastext operation, press one of the coloured buttons. For both operations, press @ (PAGE +) for the next page or ⊕ (PAGE-) for the preceding page.

3 To go back to the normal TV picture, press O

Watching a video input picture

- 1 Press repeatedly until the desired video input appears.
- To go back to the normal TV picture, press O.

More Convenient Functions

Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press @ once to display all the indications. They will disappear after a few seconds.
- Press twice to have the programme number and label stay on screen. Press twice again to make the indications disappear.

Muting the sound

Press &

To resume normal sound, press ⊄ again.

Displaying the time

Press @. This function is available only when teletext is broadcast. To make the time display disappear, press @ again.

Displaying the Programme Table

Press OK. A Programme Table will be displayed on the left side of the TV screen. (See Fig. 27.)

Selecting TV programmes

Press PROGR +/- or select the desired programme position using Δ+ or ∇- and press OK.

To make the Programme Table disappear, press MENU.

Freezing the Picture

When watching the TV you have the possibility to "freeze" the picture. Press . Press the button again to return to the normal TV picture.

Changing the Screen format

Press ## repeatedly to change the Screen mode as follows: 4:3 (4:3 picture)

- → Smart (imitation of 16:9 for 4:3 broadcast)
- → Zoom (imitation of 16:9 for movies broadcast in cinemascopic format) Of
- → Wide (for 16:9 broadcast). See also page 19 for more information.





Flg. 27

14

10

- · HUE is only available for NTSC colour systems. - Hall Surround is not
- available via headphones.

Note on LINE OUT The audio level and the dual sound mode output from the @- jack on the rear correspond to the **HEADPHONES** VOLUME and DUAL SOUND settings.

When watching a video Input source with bruos cereix You can select DUAL SOUND to change the sound.

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones. Also you have the possibility to adjust the sound to your individual taste using the Graphic Equalizer and special Sound effects.

1 Press (for picture) or) (for sound) on the Remote Commander.

Press MENU and select the symbol @ for Picture Control or b Sound Control, then press OK. The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 28 or Fig. 29.)

- 2 Using Δ+ or ∇-, select the item you want to adjust and press OK. The selected item changes colour. (See Fig. 30.)
- Adjust the setting with $\Delta + \text{ or } \nabla \text{ and press OK.}$ The cursor appears beside the next item (at the left margin), (See For the effect of each control, see the table below.
- Repeat steps 2 and 3 to adjust other items.
- 5 Press MENU to return to TV picture.

Note: The modifications

made in "USER" mode

will be stored. All other

settings are reset to

(actory-set level when

you change to another

可以目記される●

To switch off the time:

Select "OFF" in step 3.

To check the

Press 3.

remaining time

To go back to the

normal TV picture Press MENU.

mode

Fig. 28



Fig. 29

Fig. 30

Flg. 31

Effect of each control

PICTURE CONTROL	Effect
Contrast	Less More
Brightness	Darker Brighter
Colour	Less More
Hue	Greenish
Sharpness	Softer ———— Sharper
RESET	Resets picture to the factory preset levels.
Resolution	Normal high: obtain a high quality picture

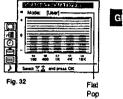
SOUND CONTROL	Effect
Graphic Equalizer	(See page 17 for more information)
Surround Mode	Off: Normal → Dolby → Hall
Hall Effect	Choice between different half effects
(only if "Half" is on)	Room→ Dome→ Arena 1
Dual Sound	A: left channel B: right channel Stereo Mono
Headphones:	The selected mode of the A-CD-B indicator on the TV lights up.
Ω Volume	
∩ Dual Sound	A: channel 1 → B: channel 2 → PAP (if PAP is switched on you can select the PAP sound for the headphones)
	Stereo → Mono

Graphic Equalizer

Using this function you can individually adjust the sound by cutting and boosting selected frequencies. You can also select between the following modes:

Flat --- Pop --- Rock --- Jazz ---- Vocal --- User

- Select "Sound Control" in the main menu, then select "Graphic Equalizer" using ∆+ or ∇- and press OK. The GRAPHIC EQUALIZER menu appears (See Fig. 32).
- 2 Press OK, The colour of "Mode" changes. Select the desired mode with Δ + or ∇ - and press OK.
- 3 If you want to modify a mode, select the desired bar of a frequency band using Δ + or ∇ - and press OK. The selected frequency changes colour. Using ∆+ or ∇- adjust the level of frequency and press OK. in this way you can adjust all 5 graphic bars.
- 4 Press MENU to return to the normal TV mode.



Rock Jazz Vocal Hear

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

- Using △+ or ∇- select the symbol ② for "Timer" and press OK. The TIMER menu appears (see Fig. 33).
- Press OK. The time period option changes colour.
- Select the time period with $\Delta + \text{ or } \nabla -$. The time period (in minutes) changes as follows:

$$10 \rightarrow 20 \rightarrow 30 \rightarrow 40 \rightarrow 50 \rightarrow 60 \rightarrow 70 \rightarrow 80 \rightarrow 90$$

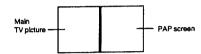
4 After selecting the time period, press OK. The cursor moves back to the left margin and the timer starts

One minute before the TV switches into standby mode, a message is displayed on the screen.

Notes

- RGB input source cannot be displayed in PAP.
- PAP is not available in the Zoom mode.
 The sound of the right
- The sound of the right screen is only available via the headphones.
- The picture quality of the TV screen and PAP may differ.

With this function you can display two screens at the same time. In this way you can watch two TV programmes at the same time. Also you can watch or monitor the video output from any connected equipment (for example from a VCR) while watching TV or vice versa. For information about connection of other equipment, refer to page 23.



Switching PAP on and off
Press lo display the screens in 8:9 format.

The PAP screen will be displayed next to the main TV screen.

The PAP screen will come from the source chosen when the TV was last used.

To switch PAP off Press (** repealedly.

Selecting PAP source

Press 1.

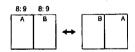
The symbol \P will be displayed at the bottom, left-hand corner of the screen.

Press PROGR +/-, the number buttons or - to select the desired source for the PAP screen.

Swapping screens

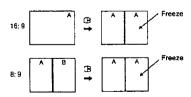
Press @.

The main screen will switch the picture with the PAP screen.



Freezing the picture

You have the possibility to "freeze" the picture of the PAP screen. Press (Blance to freeze and twice to return to the normal screen.



Operating Screen Mode/PAP using the Menu

Using the Screen Mode menu you have the possibility to change the aspect ratio for the TV display for wide screen effects, operate the PAP Mode or reproduce the main picture image by image (Strobe function).

- 1 Press MENU to display the main menu.
- Select the symbol ID for "Screen Mode" with △ + or ∇ and press OK. The SCREEN MODE menu appears (See Fig. 34).

You have the choice among the following modes:

4:3 for normal ratio 4:3 (See Fig. 35).

Smart: Imitation of wide screen effect (16:9) for 4:3 broadcasts (See Fig. 36).

Zoom imitation of wide screen effect (16.9) for movies broadcast in cinemascopic format (See Fig. 37).

Wide: for 16:9 broadcasts (See Fig. 38).

a) Changing the Screen position (only for Zoom mode) When using the Zoom mode part of the picture at the top and bottom will be cut off. With the help of the function "Screen position" you can move the screen up- or downwards in order to see the cut-off part of the screen (e.g., to read the subtitles).

Using Δ + or ∇ - select "Screen position" and press OK. The selected item changes colour. Using Δ + or ∇ - adjust the screen position and press OK.

b) Strobe Mode

(3)

0000 0000 0000 0000

0000

6000

• •

When you want to

select the screen

screen mode by

on the Remote

Commander.

You can also select the

pressing the E button

Using Δ + or ∇ - select "Strobe" and press OK. Now the TV picture is displayed image by image, creating a slow motion effect (See Fig. 39). Using Δ + or ∇ - select the speed of the motion (3 different speeds are available). Press OK to return to the normal TV mode.

c) Switching PAP on and off

Using Δ + or ∇ - select "PAP" and press OK. Using Δ + or ∇ - select "1" to display the PAP screen in 8:9 format, "2" for 4:3 format and "OFF" to switch if off and press OK.

d) Freezing the PAP screen

Using $\Delta +$ or $\nabla -$ select "Clip Board" and press OK.
Using $\Delta +$ or $\nabla -$ select "On" to freeze the PAP screen and "Off to restore the normal picture.

Auto Format

If you preset Auto Format to ON and the 16:9 format signal is being transmitted, the screen mode automatically changes from any mode to the 16:9 mode. When the 16:9 format programme is finished, the screen mode automatically returns to the previous

- 1 Press MENU to display the main menu.
- 2 Select the symbol

 for "Screen Mode" with Δ+ or ∇- and press
 OK. The SCREEN MODE menu appears.
- 3 Select "Auto Format" with ∆+ or ∇- and press OK.
- 4 Select ON or OFF with Δ+ or ∇- and press OK.



Fig. 34



Fig. 35



Flg. 36



Flg. 37



Flg. 38



Fig. 39

GB

N

With the simple side of the Remote Commander You can switch teletext on and off, operate Fastext, and directly select page numbers.

Fastext operation is only possible, if the TV station broadcasts Fastext .

TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

- 1 Select the TV channel which carries the teletext broadcast you want to watch.
- 2 Press 20 to switch on teletext. A teletext page will be displayed (usually the index page). If there is no teletext broadcast, "No text available" is displayed on the information line at the top of the screen.

To switch teletext off

Press O.

Selecting a teletext page

With direct page selection

Use the number buttons to input the three digits of the chosen page number.

if you have made a mistake, type in any three digits. Then re-enter the correct page number.

With page-catching

- Select a teletext page with a page overview (e.g. index page).
- 2 Press OK. Using Δ+ or ∇-, select the desired page. "Page Catching" will be displayed on the information line. Press OK. The requested page will appear in a few seconds. Press to resume normal teletext reception.

Accessing next or preceding page

Press @ (PAGE+) or @ (PAGE-). The next or preceding page appears.

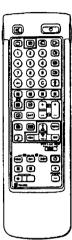
Superimposing the teletext display on the TV programme

- Press @ once in teletext mode or twice in TV mode.
- Press @ again to resume normal teletext reception.
- Preventing a teletext page from being updated
- Press @ (HOLD). The HOLD symbol "@" is displayed on the information line.
- Press To resume normal teletext reception.

Using Fastext

With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.

Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after a few seconds.



Some of the features may not be available depending on the teletext service.

Press OK to select "OFF"

for the TIME PAGE

setting to cancel the

request.

Using the Teletext Menu

This TV is provided with a menu-quided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

- Press-MENU. The menu will be superimposed on the teletext display. (See Fig. 40.)
- 2 Using ∆+ or ∇-, select the teletext function you want and press OK. (See Fig. 41.)

USER PAGES/PRESET USER PAGES

See page 22 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the pege numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down. After having selected the function, an information line Top/Bottom/Full will be displayed. (See Fig. 42.)

Press A+ for "Top" to enlarge the upper half. For "Bottom" keep pressing ∇-, to enlarge the lower half. Press OK for "Full" to resume the normal size.

Press to resume normal teletext reception.

TEXT CLEAR

After selecting the function, you can watch a TV programme while waiting for a teletext page to be captured. (The symbol changes colour.) (See Fig. 43.) Press to resume normal teletext reception.

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

Sometimes pages contain concealed information, such as answers to a guiz. The reveal option lets you disclose the information. After having selected the function, an information line "REVEAL ON/OFF" will be displayed. (See Fig.44.) Using ∆+ or ∇-, select ON to reveal the information or OFF to conceal it again.

Press to resume normal teletext reception.

TIME PAGE

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g., an alarm page) displayed at

- 1 An information window will be displayed at the bottom of the page. Using ∆+ or ∇-select "ON" and press OK.
- 2 To select the desired page, enter three digits for the page number (e.g., 452) using the number buttons.
- 3 To select the desired time, enter four digits for the desired time (e.g., 1800) using the number buttons. Press MENU. The selected time is displayed at the top in the left-hand corner. At the requested time, the page will be displayed. Press to resume normal teletext mode.



Fig. 40



Fig. 41



Fig. 42



Flg. 43



Fig. 44

GB

To cancel the request Select Subpage and oress OK

If two broadcasting stations use the same Teletext You can preset one bank to 2 different programme positions.

SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR +/or the number buttons (e.g., enter 0002 for the second page of a

User Page Bank System

You can store up to 30 pages in the "Teletext page band system". In this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 "banks" (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

- Press @ (if Teletext is not on already) and MENU to show the TELETEXT MENU display.
- 2 Select PRESET USER PAGES with Δ+ or ∇- and press OK.
- Select the desired bank with $\Delta +$ or $\nabla -$ and press OK. The cursor will go to the first position (P1) of the preferred pages.
- Input the three digits of your first preferred page with the number buttons and press OK.

The cursor will go to the second position.

- 5 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number. After having finished the presetting press OK repeatedly until the cursor appears besides the next bank at the left margin.
- 6 Select Allocate Bank with Δ+ or ∇- and press OK.
- Select the programme position for which you have preset pages with Δ + or ∇ - and press OK. (See Fig. 45.)
- 8 Select the desired bank with ∆+ or ∇- (Banks A to E are available) and ovess OK
- 9 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages

- 1 Select MENU.
- Select User Pages with $\Delta +$ or $\nabla -$ and press OK. A lable of the stored preferred pages will be displayed. (See Fig.
- 3 Select the desired page with Δ + or ∇ and press OK. The page will be displayed after some seconds.

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P2 to the green one, P3 to the yellow one and P4 to the blue button.

To select the desired page press the respective coloured button while you are in TV mode. Now the Page number of this teletext page will appear in white at the top in the left-handed comer of the TV screen. When the page number changes colour, the page is available. Press the coloured button again to display the page.



To connect a VCR

using the T terminal Connect the serial output

of the VCR to the aerial terminal 'Y of the TV.

We recommend that you

tune in the video signal to

programme number 10.1

For details see "Preset channels manually on

If the picture or the

sound is distorted

Move the VCR away from

Video signals may be

and C (chrominance)

signals prevents them

from interfering with one another, and therefore

improves picture quality

This TV is equipped with 3 S Video input jacks

separated signals can be

Acceptable input signal

(especially luminance).

through which these

When connecting a monaural VCR Connect only the white

jack to both the TV

input directly.

(luminance or brightness)

page 9.

the TV.

S/video Input

separated into Y

(Y/C input)

sionals. Separating the Y and C

Flg. 45



Flg. 46

Connecting and Operating Optional Equipment

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as a VCR, video disc player, and stereo system.

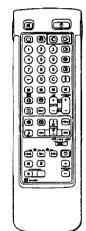
	4		ن أن أن أن
		3	
' f			

2 Normal audio/video and S video signal Video/audio from setected source 3 Normal audio/video and S video signal No outputs 4 Normal audio/video and S video signal Video/audio displayed on TV screen (monitor out) 5 No inputs S/video/audio signal displayed on TV screen (monitor out) 6 No inputs Audio signal (variable)	1	Normal audio/video and RGB signal	Video/audio from TV tuner
4 Normal audio/video and S video signal Video/audio displayed on TV screen (monitor out) 5 No inpuls S/video/audio signal displayed on TV screen (monitor out)	2	Normal audio/video and S video signal	Video/audio from selected source
5 No inputs S/video/audio signal displayed on TV screen (monit out)	3	Normal audio/video and S video signal	No cutputs
oul)	4	Normal audio/video and S video signal	Video/audio displayed on TV screen (monitor out)
6 No inputs Audio signal (variable)	5	No inputs	S/video/audio signal displayed on TV screen (monito out)
	6	No inputs	Audio signal (variable)

Available output signal

GL

Selecting input with PROGR +/- or number buttons You can preset video input sources to the programme positions so that you can select them with PROGR #- or number buttons. For details, see "Preset channels manually" on page 9.



Selecting Input and Output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

Selecting input

Press - repeatedly to select the input source. The symbol of the selected input source will appear.

To go back to the normal TV picture

Press O.



1 🕞

Input modes

Symbol	Input signal
-Ð1	Audio∿ideo input through the -@1 connector
Ð	Audio/RGB input through the - 1 connector
- €2	AudiaNidea input through the (3+2/-(5) 2 connector
- ⑤ 2	Audio/S video Input through the 3 2/ 3 2 or 3 2 connector (4-pin connector)
- Đ3	Audio/video input through -€ 3 and -€ 3 connector on the front
-6 33	S video input through the - 3 connector (4-pin connector) at the front
-Ð4	Audio/video input through the → 4/ → 4 connector
-6 0 4	S video input through the 3 4 / 4 4 or 4 4 connector(4-pin connector)

You can also select the input mode using the - button on the TV.

Selecting the output

The @ 2/- 2 connector outputs the source input from the

Press (>+ repeatedly to select the output.

The symbol of the selected output source appears.

Output modes

Symbol	⊕ 2/ – § 2 connector outputs	
1 🕒	Audio/video signal from the 👸 1 connector	
2 🕒	Audio/video signal from the ←2/ ←3 connector	
2 🖫	Audio/S video signal from the →2/ →3 2 or →3 2 connector (4 pin)	
3 🕞	Audio/video signa! from the 3, 3 connectors	
3 ⊕•	Audio/S video signal from the →⑤ 3, →○ 3 connectors	
4 🕒	Audio/video signal from the ⊕ 4/ - € 4 connector	
4 (9⊶	Audio/S video signal from the → 4/ → 4 or → 4 connector (4 pin)	
τνO÷	Audio/video signal from the TF aerial terminal	

Using AV Preset

Using this function you can preset the desired input source (e.g. 1, RGB signal) to the respective AV input (AV 1 -6). In this way a connected VTR will automatically switch to the RGB signal.

- Select the symbol \triangle for "Preset" with Δ + or ∇ and press OK.
- 2 Select first "Installation", then "AV Preset" with Δ+ or ∇- and press

The AV PRESET menu appears (See Fig. 47).

- 3 Select the desired AV input with Δ+ or ∇- and press OK.
- 4 Select the desired source with Δ+ or ∇- and press OK. For the respective AV inputs you have the following possibilities:

AV3 YC3 or AV RGB or AV AV4 YC4 or AV AV2 YC2 or AV

5 If you want to name the AV input select "Label" using Δ+ or ∇and press OK. Select a letter or a number with $\Delta +$ or $\nabla -$ and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select - and press OK. After having selected all the characters, press OK repeatedly until

the cursor appears by the next AV input at the left margin.

6 Repeat steps 3 to 6 for the other AV inputs.

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen and PAP screen, and which output source is selected. You can also select them on the menu display.

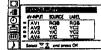
 Select the symbol all for "Video Connection" with Δ+ or ∇- and press OK, The VIDEO CONNECTION menu appears. (See Fig.

You can see which source is selected for the TV and PAP input, and for the output. If you want to select the input and output on this menu, go on to the next step.

- 2 Select TV Screen (input source for the TV screen), PAP (input source for the PAP screen), or output (output source) with Δ + or ∇- and press OK. One of the source items changes colour.
- 3 Select the desired source with ∆+ or ∇-. For details about each source, see the table on page 24.
- Press OK.

The selected source is confirmed, and the cursor appears.

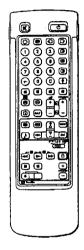
5 Repeat steps 2 to 4 to select the source for other inputs or outputs.



GB







When recording when you use the
(record) button, make sure to press this button and the one to the right of it simultaneously.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most of Sony remote-controlled video equipment such as: beta, 8 mm and VHS VCRs and video disc players.

Tuning the Remote Commander to the equipment

1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

VTR1: Beta VCR

VTR3: VHS VCR

MDP: Video disc player

2 Use the buttons indicated in the illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

Periodic cleaning of the air filter is necessary. Clean the air filter once a month. When the filter becomes old and dust remains on the filter even after cleaning, replace it with a new one.

Cleaning of the Air Filter

If you do not take the following precautions, you may get hurt or household belongings may be damaged.

- Clean the air filter periodically. If you don't clean, it may cause internal heat build-up.
- Never use an air filter which is torn or has holes. Attach the filter firmly with six tabs. If dust enters the TV, the picture may become dark or it may cause tire.
- 1 Turn off the power and disconnect the power cord.
- 2 Remove the front panel.



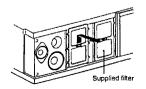
Remove the front panel without moving the TV.



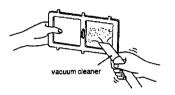


Grasping the side of the front panel with your fingers, pull it forward. Be careful not to catch your fingernails.

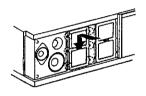
3 Pull the filter upward and remove it.



4 Clean the dust with a vacuum cleaner.



5 Attach the filter.
Attach the six tabs securely.



6 Attach the front panel.

Be careful not to damage the speaker.

Notes

- Attach the filter firmly. If it is not firmly attached, the power will not turn on.
- Remove the supplied litter in the same way as the attached litter.
- · Consult your nearest Sony service center to obtain a new fifter.

Replacing the Lamp

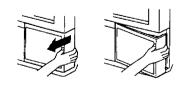
The lamp life is about 6000 hours. When the lamp become dark or the picture colour is not normal, replace with a new lamp (supplied).

If you do not take the following precautions, you may get hurt or household belongings may be damaged.

- Use the supplied new lamp (XL-100) for replacement. If you use another lamp, it may cause damage to the TV.
- Do not remove the lamp except when replacing it. This may cause heat damage or fire.
- Before replacing the lamp, lum off the power and disconnect the power cord.
- Replace the lamp after it becomes cool. The front glass of the lamp remains 100 °C (212 °F) and more even 30 minutes after the power is turned off.
- Do not place the removed lamp in proximity to children or flammable material.
- Do not get the removed lamp wet, or insert objects inside the lamp. It may cause the lamp to explode.
- Do not place near metal or easily flammable objects, as this may cause fire. Also, do not put your hand inside the lamp compartment, as you may be burned.
- Attach the new lamp firmly. If it is not firmly attached, the picture may become dark or fire may result.
- 1 Turn off the power and disconnect the power cord.
 - Replace the lamp 30 minutes or more after the power is turned off.
 - Prepare the new lamp.
- 2 Remove the front panel.



Remove the front panel without moving the TV.

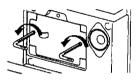


Grasping the side of the front panel with your fingers, pull it forward. Be careful not to catch your fingernails.

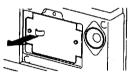
3 Loosen the screw with the object such as a coin and remove the lamp cover.



4 Loosen two screws and pull out the lamp. The lamp is still too hot just after the power is turned off. Be careful that you don't louch the front glass or surrounding area of the lamp or the glass of the lamp compartment.



Loosen two screws with the supplied wrench.



Pull out the tamp by the handle.

- 5 Attach the new lamp. Fasten two screws tightly.
- 6 Attach the lamp cover. Fasten the screws lightly.
- 7 Attach the front panel.
 Be careful not to damage the speaker.

Notes

- Do not louch or stain the front glass of the new lamp or the glass of the lamp compartment. If the glass become dirty, the picture quality may deteriorate or the lamp life may shorten.
- Attach the lamp cover firmly. If it is not firmly attached, the power will not turn on.
- When the lamp burns out, a noise is audible. This does not represent a damage.
- Consult your nearest Sony service center to obtain a new lamp (XL-100).

Troubleshooting

Here are some simple solutions to some problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	Plug in the TV in.
	 Press of on the TV (¥ of indicator is on, press ○ or a programme number
	on the Remote Commander).
	- Check the aerial connection.
	Check if the selected video source is on.
Poor or no picture (screen is dark), but sound is OK	 Press to enter the PICTURE CONTROL menu and adjust the brightness, contrast and colour.
Poor picture quality when watching an RGB video source	e · Press -⊙ repealedly to select -⊘.
Poor picture quality of PAP screen	· Press 3.
Good picture but no sound	• Press ∆ +.
	Check loudspeakers connection.
	 If
No colour for colour programmes	 Press to enter the PICTURE CONTROL menu, select RESET, the press OK.
Remote Commander does not function	The batteries are weak.

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

Specifications

This product complies with the EU Directive 89/336/EEC.

signals

- inputs for S video

- inputs for S video

(selectable)

(monitor out)

- 4 pin DIN

jacks

2/-8 221-pin Euro connector - inputs for audio and video signals

- outputs for audio and video signals

→ 4/ → 50 4 21-pin Euro connector - inputs for audio and video signals

- outputs for audio and video signals

→ Audio inputs (L, R) - phono jacks
→ S video output 4-pin DIN

Audio outputs - phono jacks

3 video input - phono jack

- Audio inputs - phono lacks

-(5) 3 S video Input - 4-pin DIN

∩ Headphone jack: stereo minijack

- Audio outputs (variable)-phono

-® 2, -® 4 S video inputs

Television system	B/G/H, D/K, I, L	Sound output	2 x 5 W (music power)
Colour system	PAL/SECAM		Centre 1 × 20 W
•	NTSC 3.58/4.43 (VIDEO IN)	Power consumption	170 W
Channel coverage	See "Receivable channels and	Dimensions (W x H x D)	920 x 825 x 390 mm
•	channel displays" at the bottom.	•	(KL-37W1)
Projected picture size	37 inches (KL-37W1)		1,230 × 1,055 × 550 mm
	Approx. 94 cm diagonally		(KL-50W1)
	50 inches (KL-50W1)	Mass	29 kg (KL-37W1)
	Approx. 127 cm diagonally		43 kg (KL-50W1)
		Supplied accessories	See page 6.
Terminals		Other features	Digital comb filter (High resolution)
Rear	☐ 1 21-pin Euro connector		PAP (Picture-and-picture)
· Pocti	(CENELEC standard) inputs for audio		FASTEXT
	and video signals		100 Hz Digital Plus
	- inputs for RGB		Graphic Equaliner
	- outputs of TV video and audio		
	· outputs of 1 v video and addio	5 1 1 10 W	Add and the second of the

Design and specifications are subject to change without notice.

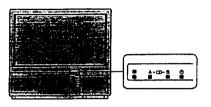
Receivable Channels and Channel Displays

	Receivable channels	indication on the screen
B/G/H	E212 2169	C02 C03 C04C12 C21C69
CABLE TV (1)	S141	S01 S02S41
CABLE TV (2)	S01S05 M1M10	\$42\$46 \$01\$10
	U1U10	S11S20
ITALIA	ABCDEFGHH1 H22169	C11C69
D/K	R01R12 R21R69	C02C12 C21C69
CABLE TV (1)		S01 S02,,S41
CABLE TV (2)		S42 S43S46
CABLE TV	BQ, S2141	S02, S03S17,
		S21S41
L	F2F10 F21F69	C01C12 C21C69
1	B21B68	C21C6B

Warning Indicators

When a problem occurs, the indicator flashes as follows.

Attempt the solution recommended for the given problem.



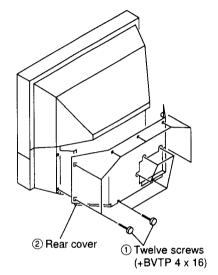


Cause	indicator flashing patterns
The lamp burns out or the quality of the lamp is deficient.	The B indicator flashes twice then A flashes once. Flashing continues in this manner.
The cover of the litter or the lamp is removed.	The B indicator flashes three times then A flashes once Flashing continues in this manner.
The fan for cooling stops.	The B indicator flashes four times then A flashes once. Flashing continues in this manner.
Internal heat builds up.	The B indicator flashes five times then A flashes once. Flashing continues in this manner.

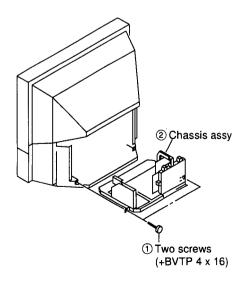
If the lamp flashes in a way not described above, consult your nearest Sony service center.

SECTION 2 DISASSEMBLY

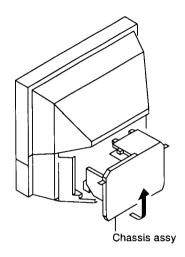
2-1. REAR COVER REMOVAL



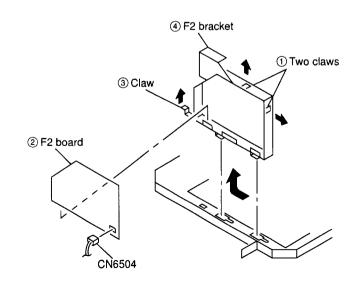
2-2. CHASSIS ASSY REMOVAL



2-3. SERVICE POSITION

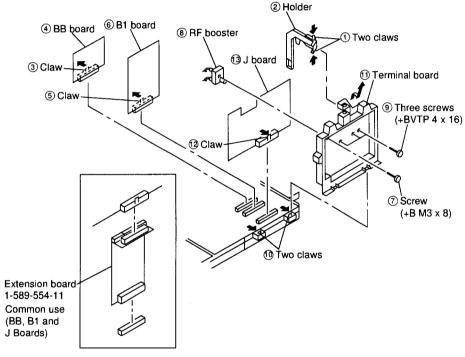


2-4. F2 BOARD AND F2 BRACKET REMOVAL

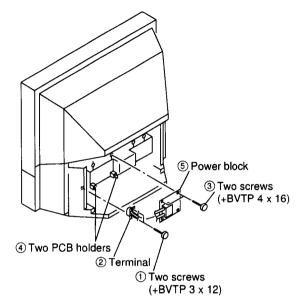


19

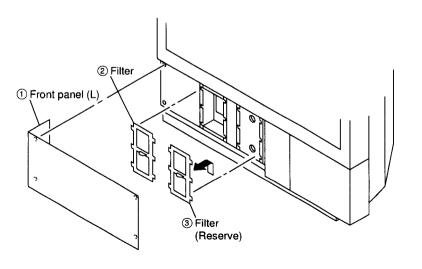
2-5. BB, B1 AND J BOARDS REMOVAL (EXTENSION BOARD)



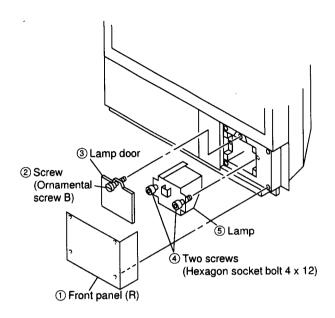
2-6. POWER BLOCK REMOVAL



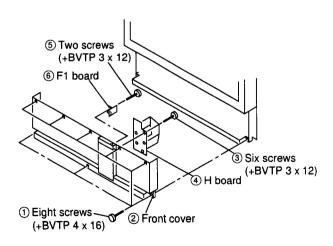
2-7. FILTER REMOVAL



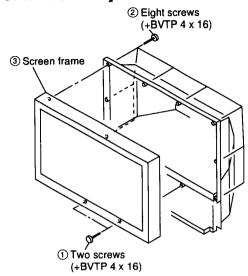
2-8. LAMP REMOVAL



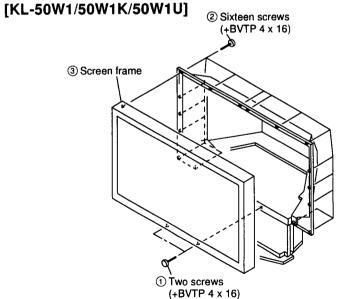
2-9. H AND F1 BOARDS REMOVAL



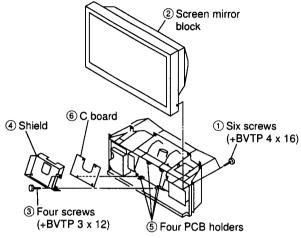
2-10-1. SCREEN FRAME REMOVAL [KL-37W1/37W1K/37W1U]



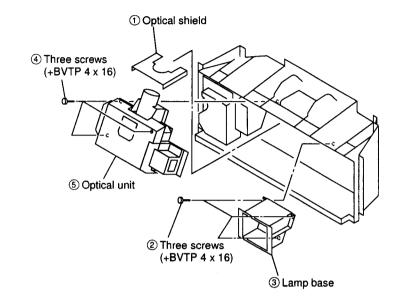
2-10-2. SCREEN FRAME REMOVAL







2-12. OPTICAL UNIT REMOVAL



SECTION 3 CIRCUIT ADJUSTMENTS

3-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-838.

HOT TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing the + (plus) and – (minus) buttons on the customer front panel.

Flg. 4-1

2. "TT" will appear on the upper right corner of the screen.

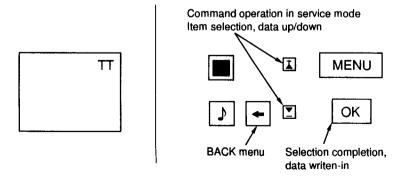


Fig. 4-2

Flg. 4-3

3. Press 01 on the commander to get the menu on screen.

Venus	V2.07	AE-3	12/03/96
O Init			
O Video	Contr	CXA1839	
O Scan	Con.	CXD2428	
Video	Proc M	CXD2030	
O Timing	g Gen.	CXD2412	
O RGB	Interface	CXA2011	
O PAP		CXD2031	
o SRC		CXD2032	
o TDA6	812	TDA6812	
O PALP	LUS		

- 4. Press the \(\frac{1}{2} \) and \(\frac{1}{2} \) buttons on the remote commander to select the adjustment item.
- 5. Press the OK button to proceed to the next menu.
- 6. If the adjustment item is Video cont press the <u>▼</u> button to move to Video cont then press OK button.
- 7. The Menu as indicated in Fig will appear on the screen.

Video Cont. CXA1839

Item No.	Adjustment Item	Data Amount
1	Sub BRT	[6]
2	Sub COL1	[15]
3	Sub CON1	[15]
4	PIC	[53]
5	HUE	[31]
6	COL	[31]
7	BRT	[31]
8	SHP	[31]
9	Sub HUE	[6]
10	D COL	[off]

KL-50W1/50W1K/50W1	KL-37W1/37W1K/37W1
\subset	\subseteq
RM-838	RM-838

11	SHP Lim	[off]
12	Age WHT	[off]
13	R-Y R	[8]
14	R-Y B	[13]
15	G-Y R	[11]

- Press the button to move > to the adjustment item and press the OK button.
 Press the and buttons to change the data in order to comply with each standard.
 Press the OK button to write data into memory.

- 11. Turn off the power to quit the service mode when adjustments have been completed.

Scan Converter CXD2428

Item No.	Adjustment Item	Data Amount
1	H-shift	[126]
2	V-shift	[14]
3	H-phase	[58]
4	V-phase	[31]
5	H-SZ-RD (40h)	[140]
6	H-SZ-RD (50h)	[3]
7	H-SZ-WR (41h)	[140]
8	H-SZ-WR (51h)	[3]
9	LN-DAT0	[0]
10	MD-DAT0	[3]
11	LN-DAT1	[0]
12	MD-DAT1	[0]
13	LN-DAT2	[0]
14	MD-DAT2	[0]
15	LN-DAT3	[0]

Video Proc M CXD2030

Item No.	Adjustment Item	Data Amount
1	DNR	[on]
2	DNR value	[5]
3	TA Sync C1p pls width	[16]
4	TB BGP position	[50]
5	TD CLP position	[25]
6	Foto CD SW	[off]
7	BLK porch pos	[16]
8	NTSC TD BGP pos	[25]
9	PAL TD BGP pos	[25]
10	Not Secam TB BGP pos	[50]
11	Secam TB BGP pos	[50]
12	358 NR Level	[3]
13	443 NR Level	[5]
14	Color detect Mode	[0]
15	Extern Y/C	[off]

RGB Interface CXA2011Q

Item No.	Adjustment Item	Data Amount
1	Drive Level	[48]
2	Sig Sel	[0]
3	Sub Bright	[23]
4	Sync Sel	[0]
5	Sync SW	[3]
6	ABL SW	[off]
7	AKB-T	[off]
8	HD Sync	[on]
9	R Drive	[31]
10	G Drive	[31]
11	B Drive	[31]

KL-50W1/50W1K/50W1U	KL-37W1/37W1K/37W1U
RM-838	RM-838

12	R Cutoff	[124]
13	G Cutoff	[124]
14	B Cutoff	[123]
15	Gamma Level	[0]

TIMING GENERATOR CXD2412QA

Item No.	Adjustment Item	Data Amount
1	SLSH1	[on]
2	SLSH2	[off]
3	SLSH3	[on]
4	BH Bias	[252]
5	RH Bias	[252]
6	BL Bias	[112]
7	RL Bias	[122]

PAP CXD2031

Item No.	Adjustment Item	Data Amount
1	Main phase WR start	[52]
2	Sub phase WR start	[20]
3	Main RD start	[43]
4	Brightness sub	[8]
5	Twin pic	[on]
6	WR inhibit1	[off]
7	WR inhibit0	[off]
8	RD inhibit0	[off]

SRC CXD2032

Item No.	Adjustment Item	Data Amount
1	YCD	[0]
2	YDF	[0]
3	COF	[0]
4	Reference clamp	[0]
5	Offset	[off]
6	IIR latch	[off]
7	BGP Sync SW	[0]
8	Clamp	[off]
9	50/60	[off]
10	Reference clamp	[32]
11	Offset Level	[0]
12	System Delay	[9]
13	Offset Level	[0]
14	FVSW	[on]
15	Mask SW	[on]

TDA 6812

Item No.	Adjustment Item	Data Amount
1	Stereo-sep	[15]
2	Pre-Volume	[2]
3	Treble-offset L/R	[0]
4	Bass-offset L/R	[0]
5	Treble-offset C/S	[255]
6	Bass-offset C/S	

KL-37W1/37W1K/37W1U RM-8

3-2. TEST MODE

Is available by pressing the Test button twice, OSD "TT" appears. The functions described below are available by pressing the two numbers. To release Test Mode 2, press 0, 10, 20...twice or switch the TV into Standby Mode. Pressing the two Local Control buttons (+ and –) during Power ON will also switch into "TT" mode.

In TT mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the menu to reappear. The Function is kept even when the menu is not displayed!!

00	Switch back to normal mode - TT mode off
01	Switch service menu on
02	no function
03	Set Volume to 30%
04	Service Menu in "Service Mode"
05	Service Menu in "Production Mode"
06	Set Volume to 80%
07	Aging mode
08	Shipping condition (Production request) To ensure that all TV sets leave the Production with the same pressettings. Programme 1 is selected, AV IN is set to AV1, AV Out is set to TV Out, Volume and HP Volume is set to 35%, Resolution is set to high, Format is set to 4:3, Pip is set to Top Left position, Pip is switched off, TT mode is switched off, all analogue values are set to the reset setting, space Sound - Equalizer - Loudness = off, DNR off, Dig. Mode = 1, Wide Zoom Mode for W28 models, Menu Language Reset, Prog. Pointer table reset Non Interlace is allowed in Text mode.
09	Language reset. With this function the Menu Language is set to "unselected" (NVM Bank OAAH Adress ODCH). The value for the Language Group is not overwritten (Selection West/East/Common). The Language Menu appears now automatically when the TV set is switched ON as long as no new language is selected.
10	The TT number will be deleted. All numbers with 0 (10, 20 30, 40, 50, 60, 70, 80, 90) will reset the TT number. A new number can be selected. TT display is kept

11	Direct access to Balance. With Cursor Up/Down the Balance can be controlled (w/o OSD, Menu display)
12	Direct access to Hue. With Cursor Up/Down the Hue can be controlled (w/o OSD, Menu display)
13	Display of Software Version and TV set configuration
14	Production Info Display
15	Read factory setting from ROM (Program code) and store this data at Last Power Memory data location (The previous last power memory data is overwritten) AE3 has 3 packages of Analogue data: 1. Last Power memory data. This data is sent continiously to the corresponding IC's (TDA1839, SC, TDA6812) with this data the TV picture/sound appears. 2. Reset data. By pressing "Reset" in the menu this data is transfered from Reset Data location to the Last Power data location in the NVM. That means the previous Last Power Memory Data is overwritten by the Reset data last Power memory and Reset data are now the same. 3. Factory fixed data. In the ROM code of the micro processor are also analogue datas which
16	are fixed (ROM can't be changed) Save actual Last Power Memory data at Reset Data location (The previous Reset data is overwritten)
15/16	With these two functions, it is possible to preset user defined Reset values (just TT16) or to preset factory defined Reset values (first TT15 then TT16)

17	This functions presets the Labels for the AV sources: The Labels are AV1, RGB, AV2, YC2, AV3, YC3, AV4, YC4.
18	Text possible On/Off selection of Text (toggle function)
19	Direct access to Stereo Separation With cursor Up/Down the Stereo separation can be adjusted (w/o OSD, Menu display)
20	see TT10
21	no function
22	Operating Timer and Error Monitor display
23	Direct access to Sub Brightness Adjustment With cursor Up/Down the Sub BRT can be adjusted (w/o OSD, Menu display)
24	Direct access to Sub Color. With Cursor Up/ Down the Sub Color can be adjusted.
25	Status menu display (SubController, CXA1840 Status, Main Controller.)
26	Text Character set selection (Char set 06 -> West Europe)
27	Text Character set selection (Char set 38 -> East Europe)
28	Text Character set selection (Char set 40 -> West Europe) US English
29	Text Character set selection (Char set 55 -> West Europe) Turkish
30	see TT10
31	Increase V-Aperture
32	Decrease V-Aperture
33	no function
34	no function

35	no function
36	Mtx Register 112 = intern display clock
37	Mtx Register 112 = extern display clock
38	Automatic selection of Screen Modes: 4:3 -> Zoom -> Zoom up -> Zoom down -> smart -> wide.
39	Reset Programme Table (NVM Bank 0ACH) The sorting of programmes in "Programme Sorting Menu" is reset.
40	see TT10
41	Picture min
42	no function
43	no function
44	no function
45	Set NVM to Protect mode (Bank 0AEH Adr. 0FFH write with 0)
46	IR Channel Pressetting Mode. The channel pressetting can be done by a Special IR transmitter (Deatiled INFO about IR transmitter from SEC) Sequence:TT46 ->PR Number select display appears Select Prog. No from where the channel shall be stored> Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs < INote: When TT46 is active, any transmission will be interpreted as PROG data!
47	Direct access to Headphone Source Selection with Cursor Up/Down the Source of Headphone can be selected (w/o OSD, Menu display)
48	no function
49	The EEPROM Testbyte is erased. After Power OFF -> ON the complete EEPROM data (exept channel tables) are overwritten. EEPROM Protection byte is set to 0 protection mode
50	see TT10
51	Strobo mode is activated.

52	no function
53	no function
54	no function
55	MTX Slicer Control "Low Pass" (only Sys L))
56	MTX Slicer Control "No Compensation"
57	Megatext Service Menu ON
58	MTX Small Framing Code Window
59	MTX Wide Framing Code Window
60	see TT10
61	no function
62	ACI disable.
63	ACI enable.
64	Reset all IIC Slave commands
65	Reset stored error codes in NVM.
66	Reset for Sub Controller.
67	Direct access to Headphone Volume. With cursor Up/Down the Headphone volume can be controlled (w/o OSD, menu display)
68	ignore errors.
69	reset ignore errors (show errors)
70	see TT10
71	Picture Rotation Function On/Off toggle.
72	no function
73	Megatext RGB textlevel one step decreased
74	Megatext RGB textlevel one step decreased
75	reserved for TT command Network ID, not inplemented yet
76	CXD2030 Default data setting.
77	CXD 2031 Default data setting.
78	CXD 2032 Default data setting.
79	CXD 2428 Default data setting.
80	see TT10
81	Default data setting CXA2011

82	no function		
83	no function		
84	CXA 1839 Default data setting		
85	Default data setting CXD 2412		
86	no function		
87	Default data setting CXD 2030		
88	Text character set Russian/East		
89	Text character set Russian/West		
90	see TT10		

3-3. ERROR MONITOR AND DETECTION

In the menu 'Error Monitor', information about the error status of the set is displayed.

- Actual operating time
- Last five errors which are stored in the NVM
- Actual error

Erroe Monitor Operating Time 000355 h 35min **Saved Errors** 1. 40h=D1 Board 2. 60h=Q Board 3. 70h=T Board 4. 00h=no error occured 5. 00h=no error occured **Actual Error** -> 00h=no error occured

to reset the NVM press 'TT' 65

Additionally the Error Reader can be connected to the service connector to read out the actual errors.

The device check itself is active while the TV set is running out of stand-by mode. The devices are checked by sending an I²C start sequence and if there is no acknowledgement back from the devices it is regarded as an error. Each device is checked three times and if at every attempt there is no reply from the relevant device an error is given. To read the error codes press 'TT' followed by 22 on the commander to view the Error Monitor menu.

To reset the error codes in the NVM press 'TT' followed by 65 on the remote commander.

TABLE OF ERROR CODES

Error Code	Device	Description	Board
000h	no device	no error has occured	-
001h	IIC 1 and IIC 2	IIC 1 and IIC 2 blockaded	_
002h	IIC 1	IIC1 is blockaded	_
003h	IIC 2	IIC2 is blockaded	_
010h	A Board	A Board is defective	-
020h	A1 Board	A1 Board is defective	-
030h	BX-Board (B, B1, B2)	B, B1, or B2 Board is defective	_
040h	D1 Board	D1 Board defect	
050h	J Board	J Board defect	_
060h	Q Board	Q Board defect	-
070h	T Board	T Board defect	-
011h	CXP85332	No response from the Subcontroller	Α
012h	ST24C16	No response from the NVM	Α
013h	SDA5273	No response from the Megatext IC	Α
014h	TDA6812	No response from the Sound Processor	Α
015h	SAA7283	No response from the Nicam Decoder	Α
016h	UV916H	No response from the Main Tuner	Α
017h	CXA1839Q	No response from the Video Controller	Α
018h	CXA1840	No response from the CRT Driver	Α
019h	RGB8443	No response from RGB/YUV	Α
021h	TDA6622	Audio processor of the Center and Surround channel in the case of Dolby Prologic does not respond.	A1
022h	TDA7317	No reponse from the Equalizer.	A1
031h	CXD2030R	No response from the Digital Video Processor.	B/B1
032h	CXD2031R	No response from the Twin Picture IC.	B1
033h	CXD2032R	No response from the Digital Sampling Rate Converter.	B/B1
034h	CXD2033R	No response from the Picture in Picture IC.	В
035h	CXD2035R	No response from the Aspect Converter.	B/B1

Error Code	Device	Description	Board
036h	TDA9160	No response from the Chroma Decoder.	B/B1
037h	TDA9145	No response from the Chroma Decoder (on French models only.)	B2
041h	CXA1526	No response from the Convergence IC.	D1
051h	CXA1855	No response from the AV-Switch	J
061h	83C65202	No response from the Local Controller.	Q
071h	UV1316/TSA5526	No response from the Subtuner.	Т
072h	CXA1875	No response from the Port Expander.	Т

LENS FOCUS ADJUSTMENT

- 1. Loose screw of LENS focus.
- 2. Adjust LENZ focus so that best focus.

3-4. REGISTRATION ADJUSTMENT

Preparation

- Image quality adjusting menu Standard

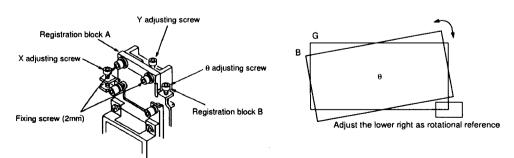
Note: In adjusting the registration, the registration fixing block is secured with an adhesive, and therefore the PANEL BLOCK ASSY is required.

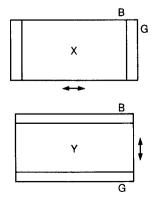
• Tools and Kit

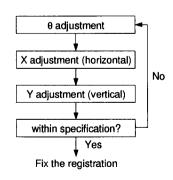
Hex. wrench keys (2mm, 1.5mm)

PANEL BLOCK ASSY (Refer to SECTION 5. EXPLODED VIEWS)

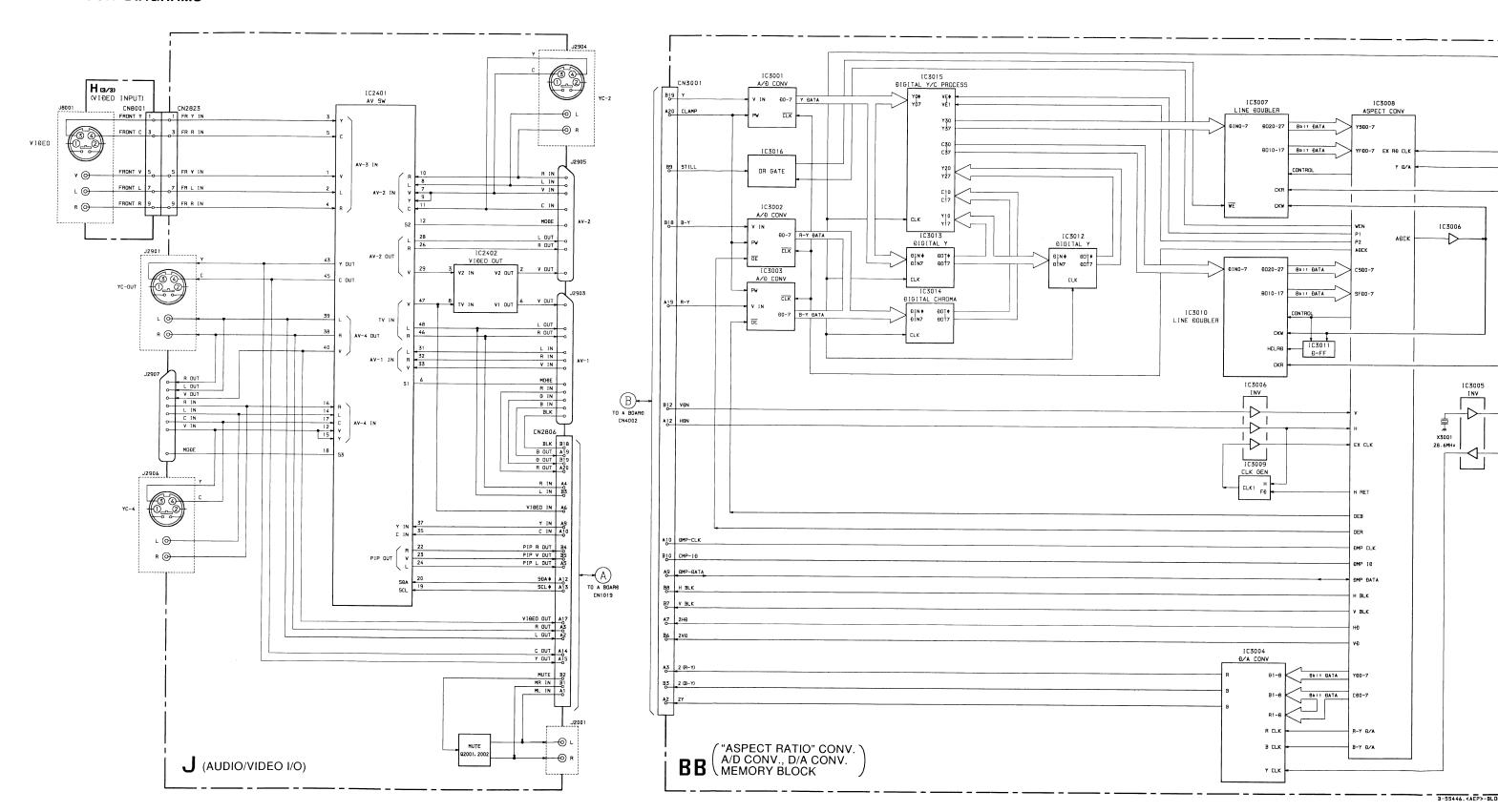
- 1. Entering G monochrome crosshatch signal or B monochrome crosshatch signal, adjust the registration between B and G. Overlay B image on the G image as shown, while turning the registration adjusting screws in the order of $\theta \to X \to Y$.
- 2. Enter full black signal to the B panel, then the R monochrome crosshatch signal to adjust the registration of R and G.
- 3. Tighten tentatively the registration fixing screws on the R and B panels, and secure the registration blocks A and B with an adhesive.
- 4. Tighten the registration fixing screws.

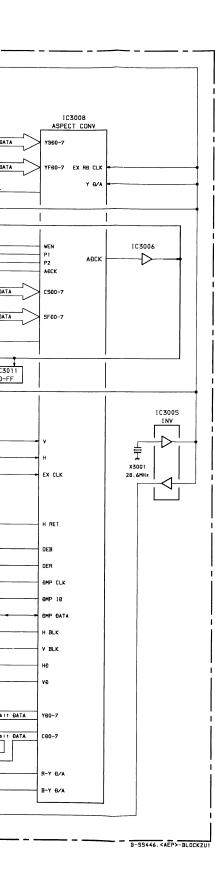


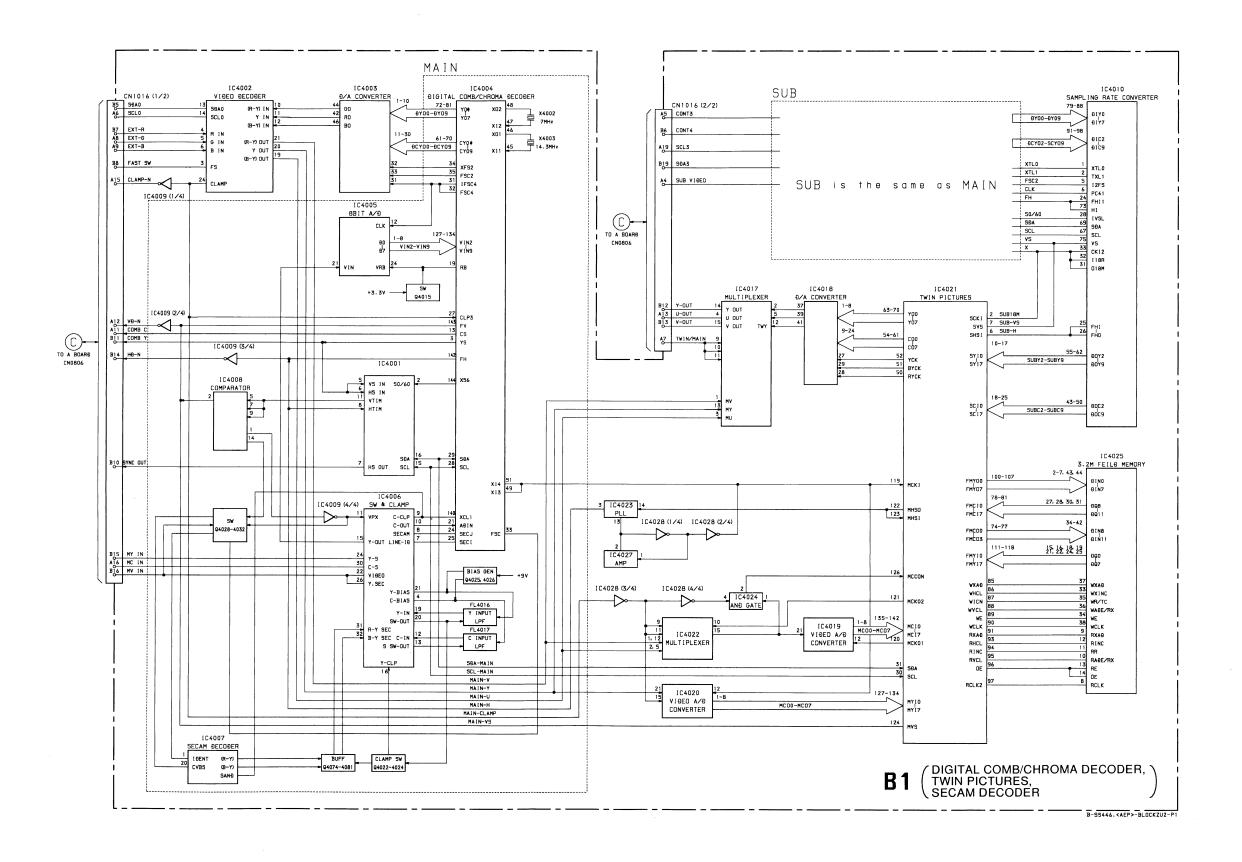


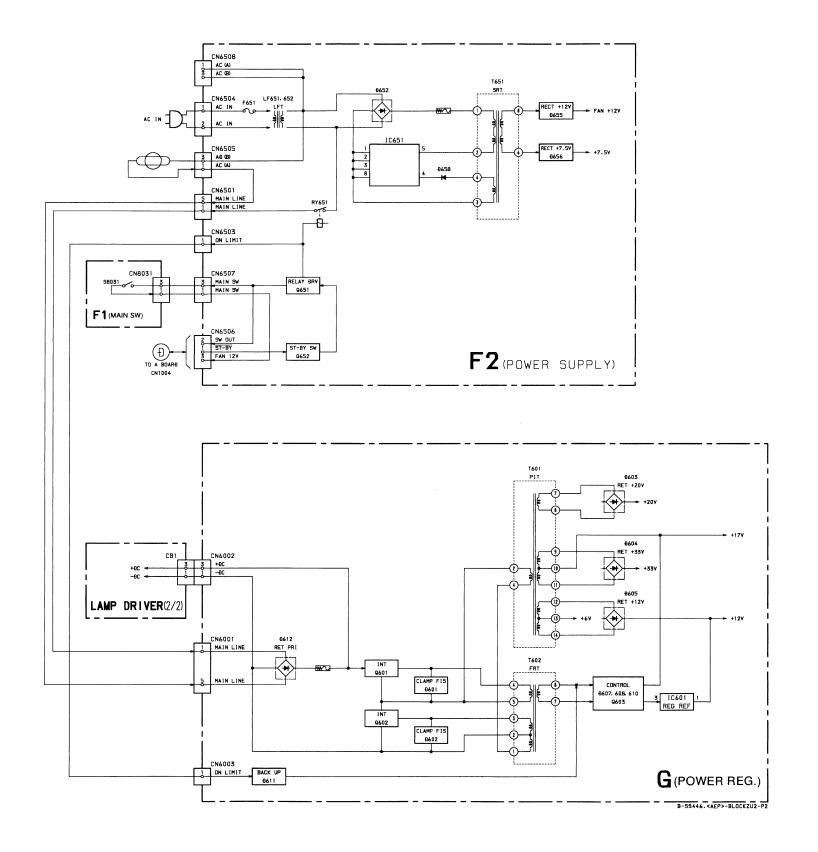


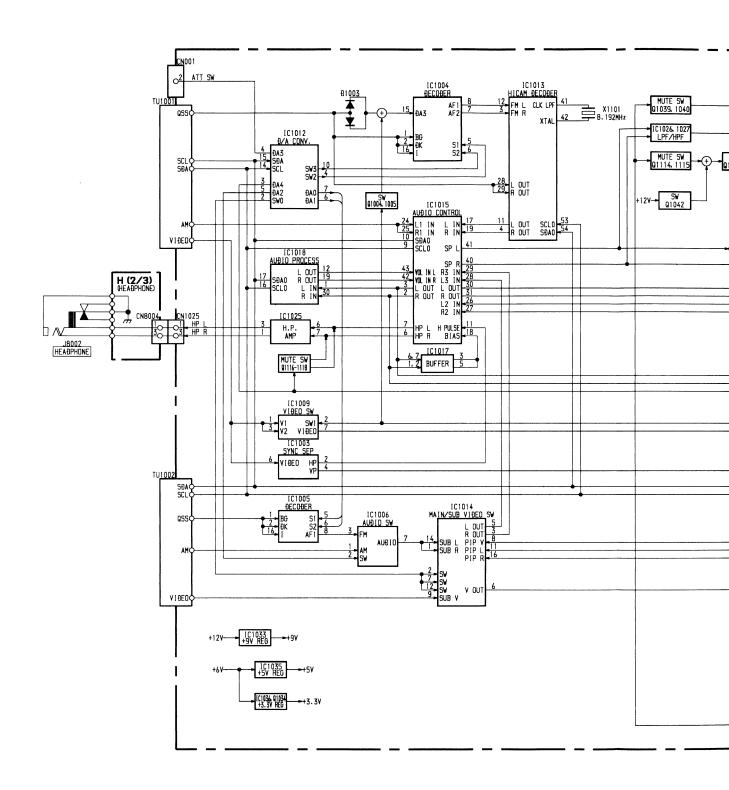
4-1. BLOCK DIAGRAMS

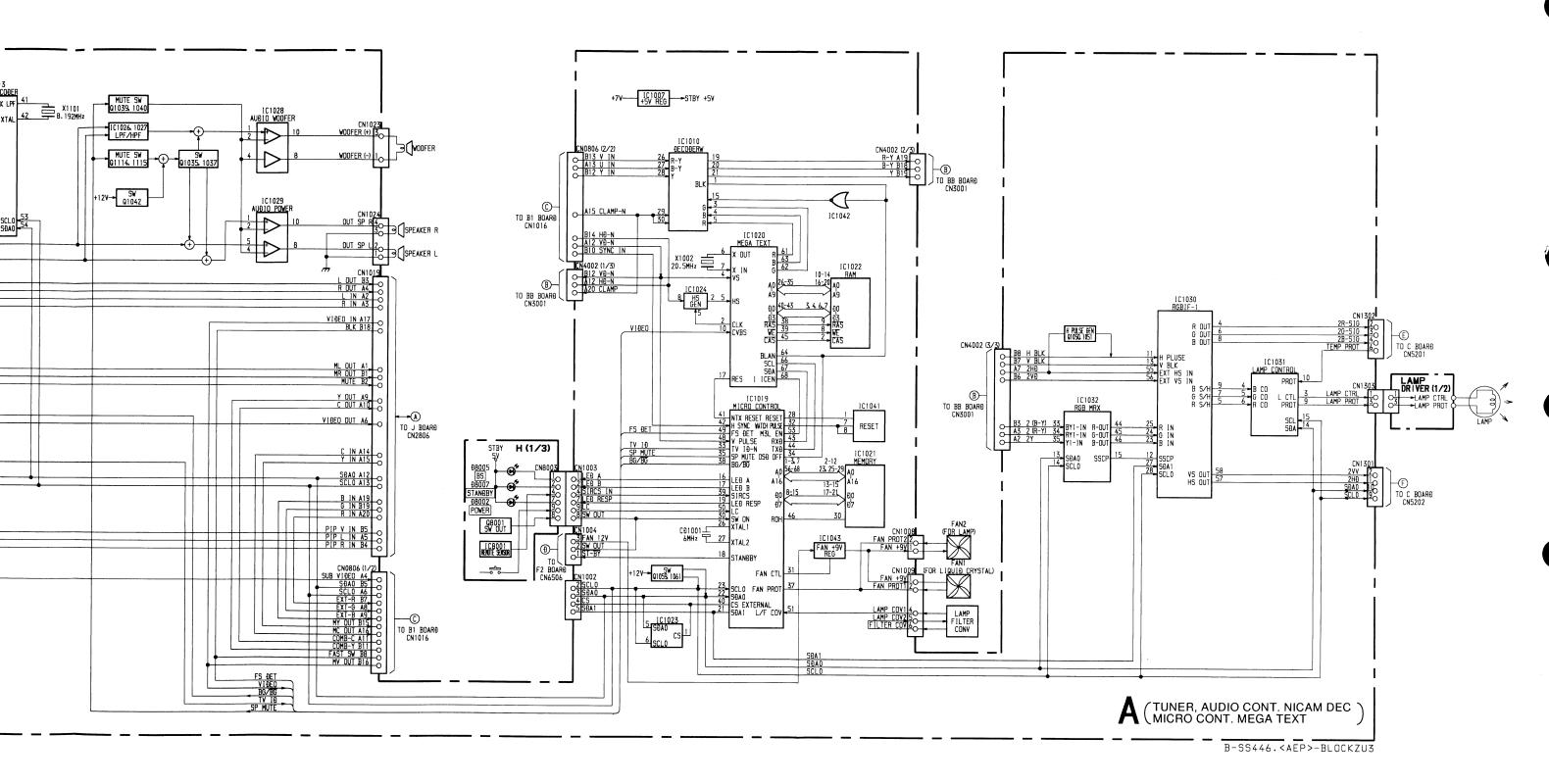


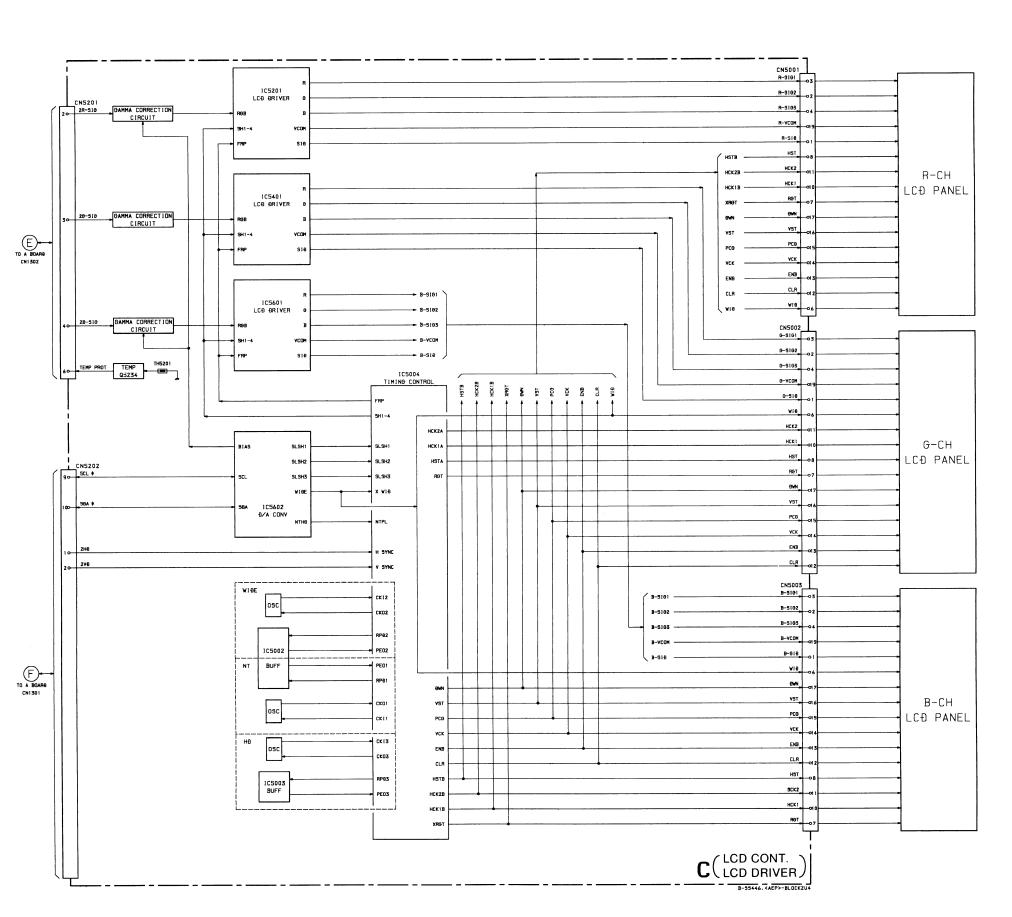






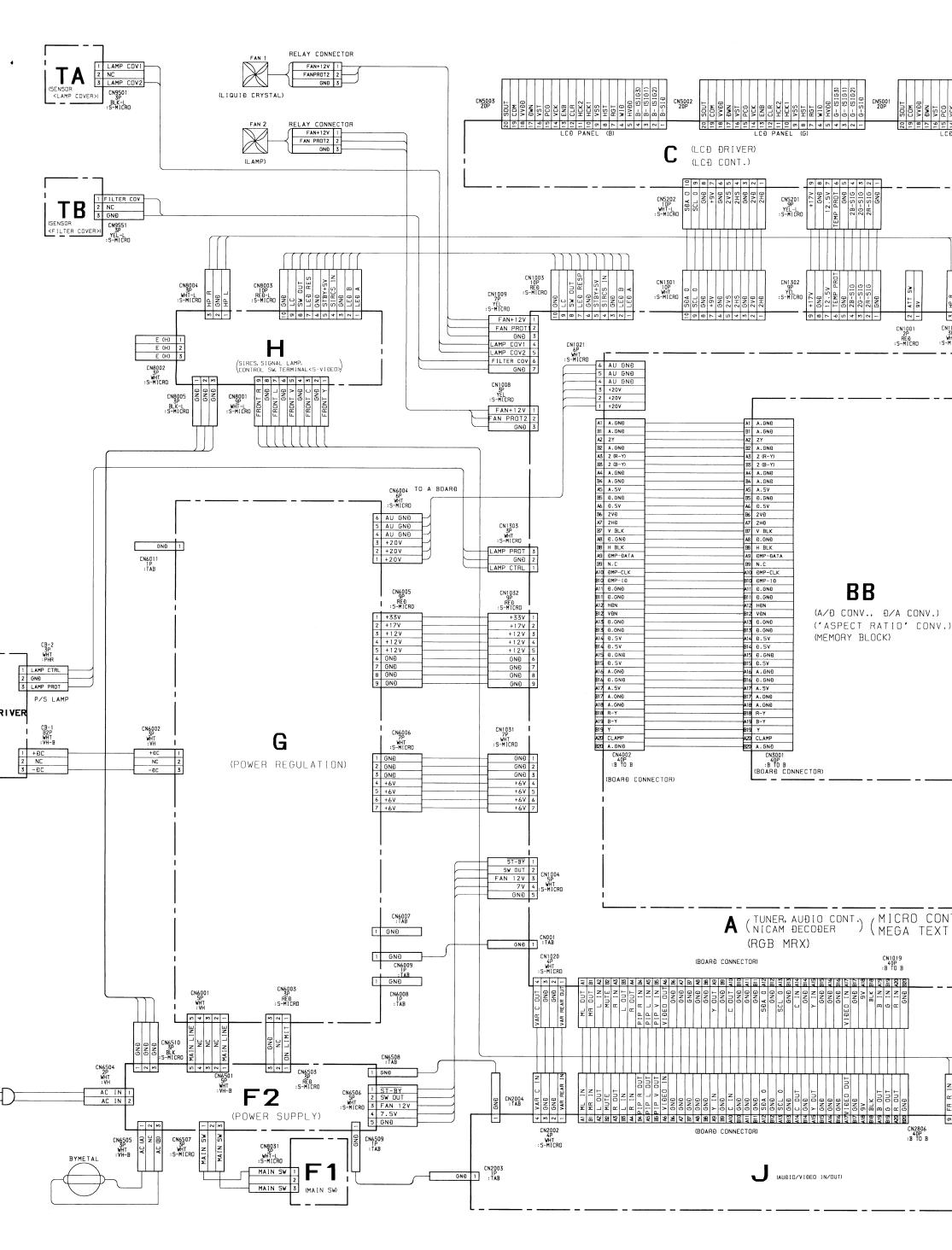


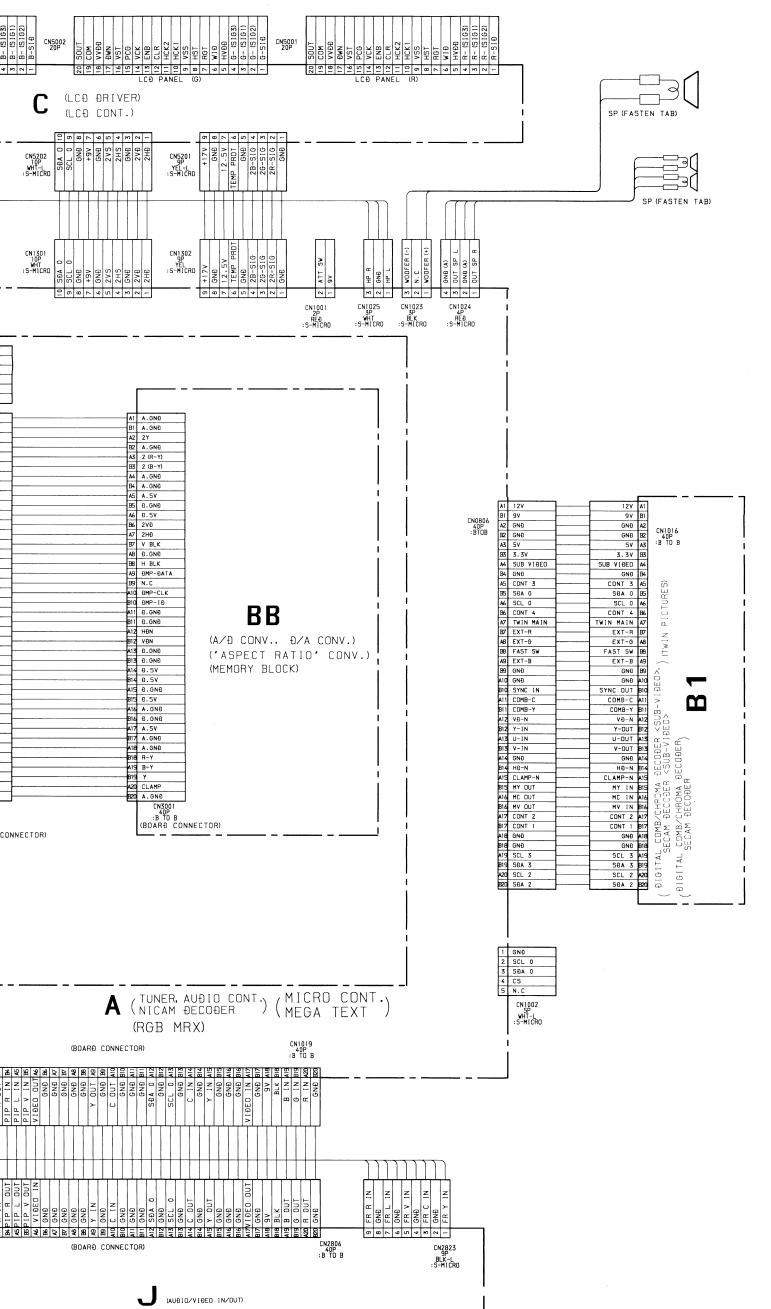




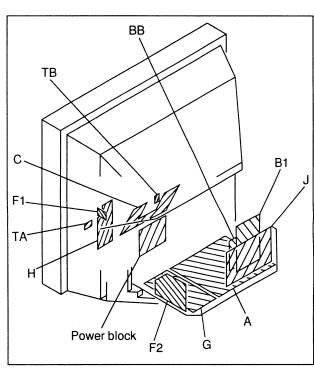


RAME SCHEMATIC DIAGRAM





4-3. CIRCUIT BOARDS LOCATION



4-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$ 50 V or less are not indicated except for electrolytic.
- · Indication of resistance, which does not have one for rating electrical power, is as follows.

Rating electrical power 1/4 W (CHIP : 1/10 W)

- · All resistors are in ohms.
- nonflammable resistor.
- : fusible resistor.
- internal component.
 panel designation, and adjustment for repair.
- · All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- 上 : earth-ground. • # : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 $M\Omega$ digital multimeter. · Readings are taken with a color-bar signal input.
- · Voltage variations may be noted due to normal production
- tolerances. : Can not be measured.

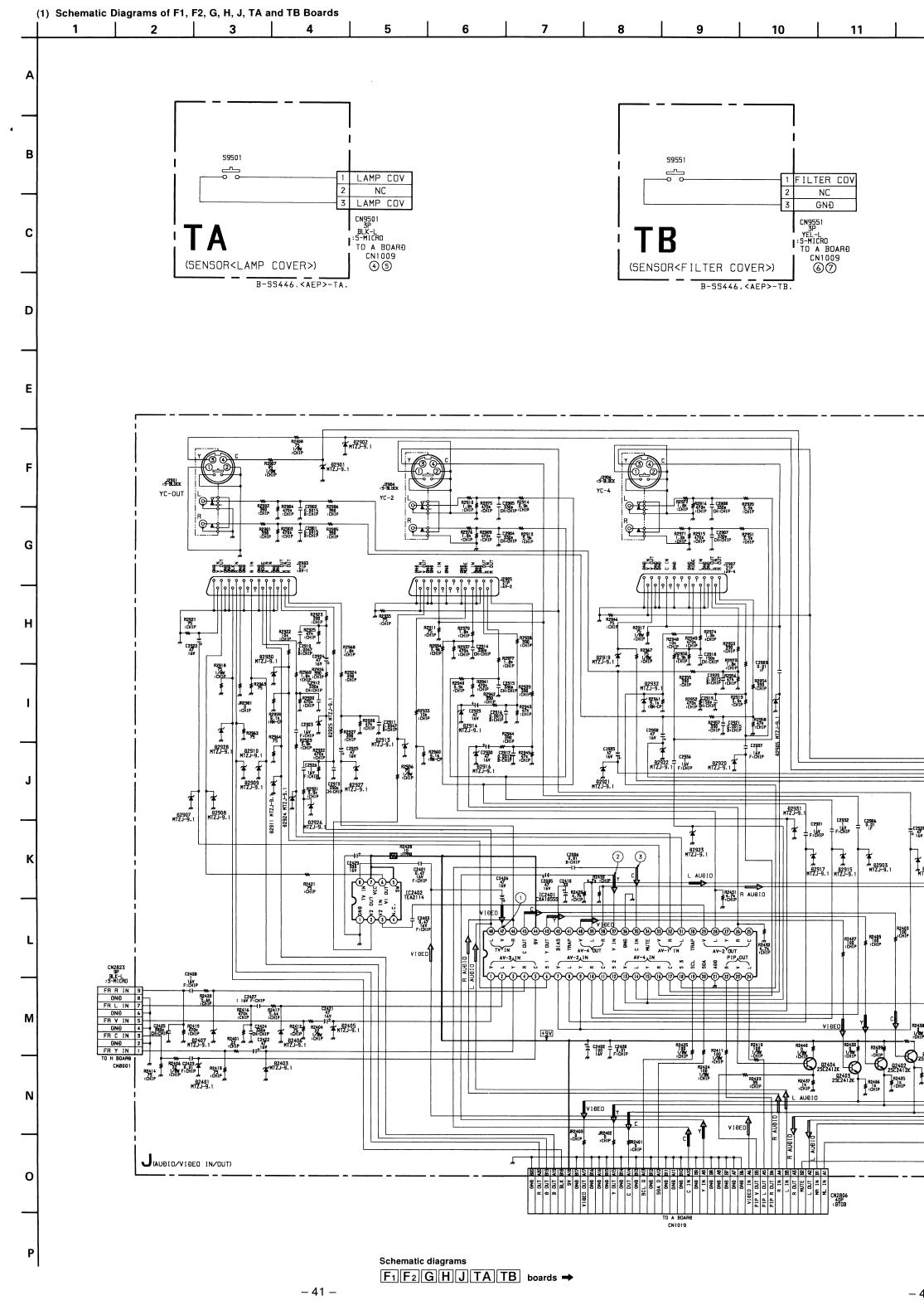
NO MARK: PAL (): SECAM

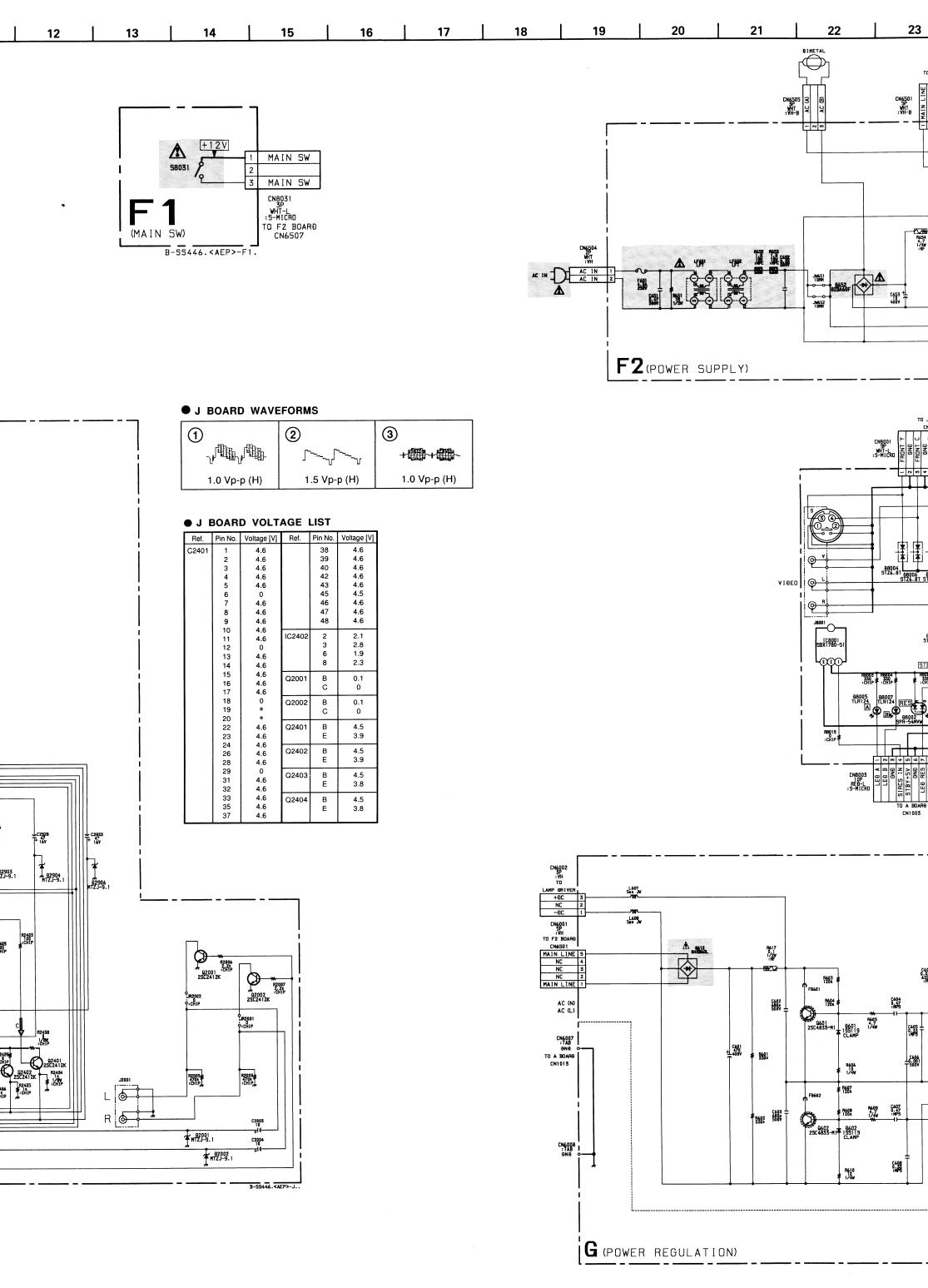
- Circled numbers are waveform references.
- : B + bus. . --- : B - bus.
- ⇒ : Signal path.

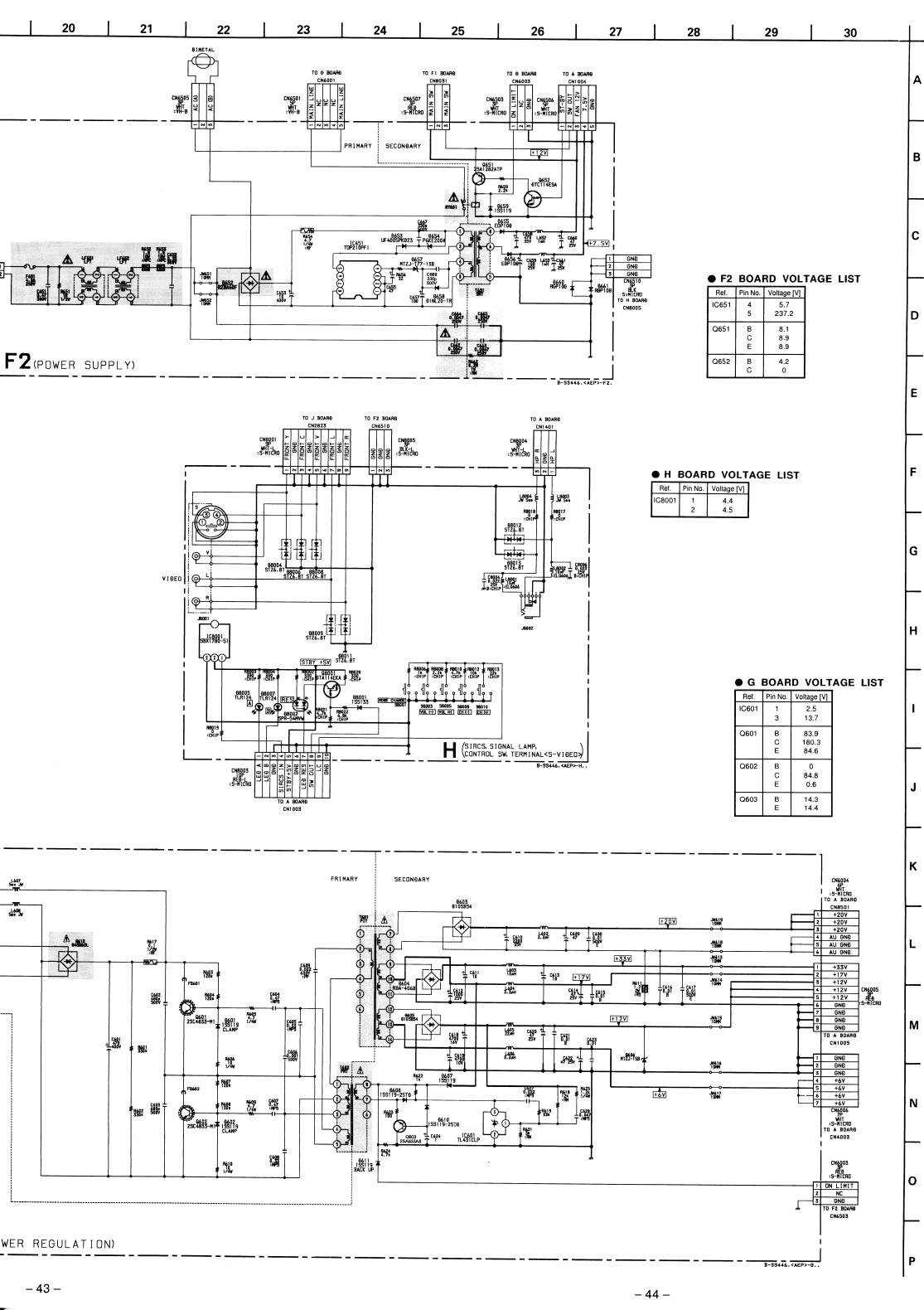
Reference information

RESISTOR : RN METAL FILM : RC SOLID : FPRD NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE : FUSE : RW NONFLAMMABLE WIREWOUND NONFLAMMABLE METAL OXIDE : RS NONFLAMMABLE CEMENT : RB COIL : LF-8L MICRO INDUCTOR CAPACITOR : TA **TANTALUM STYROL** : PS POLYPROPYLENE : PP : PT MYLAR METALIZED POLYESTER : MPS : MPP METALIZED POLYPROPYLENE : ALB **BIPOLAR** HIGH TEMPERATURE : ALT : ALR HIGH RIPPLE

Note: The components identified by shading and mark $\boldsymbol{\triangle}$ are critical for safety. Replace only with part number specified.

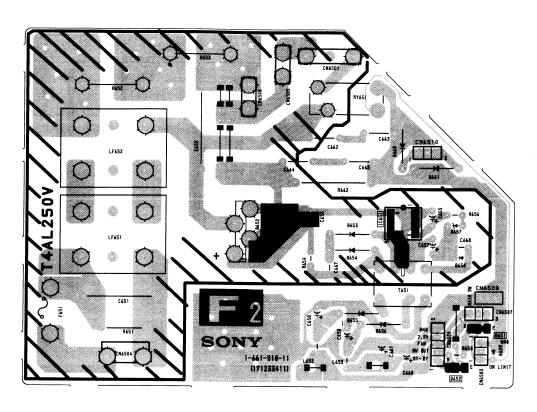




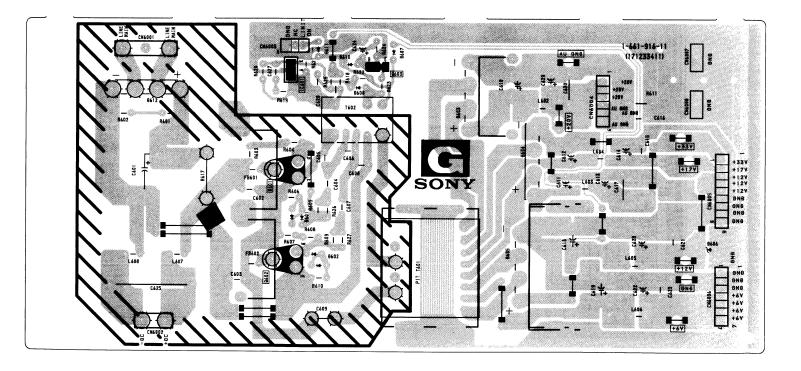


AUDIO/VIDEO IN/OUT

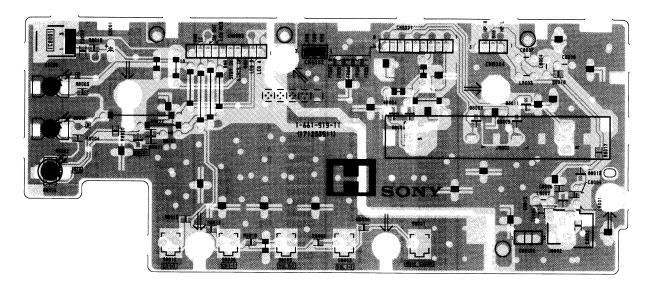
— F2 Board —



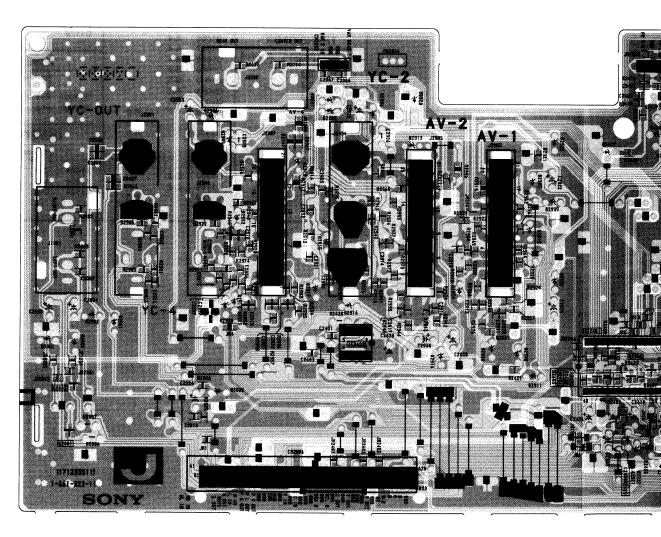
— G Board —







— J Board —



1-661-916-11 (171233411)

SENSOR (FILTER COVER)







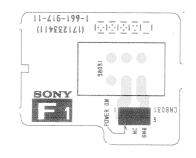
E1 [MAIN SW]



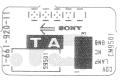
SENSOR (LAMP COVER)



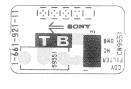
- F1 Board -



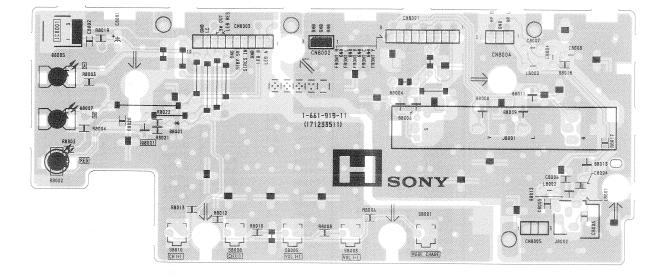
— TA Board —



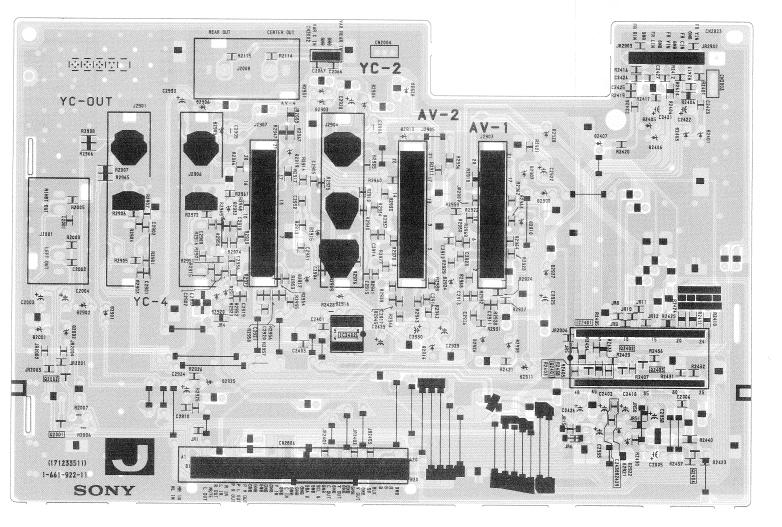
— TB Board —



- H Board -

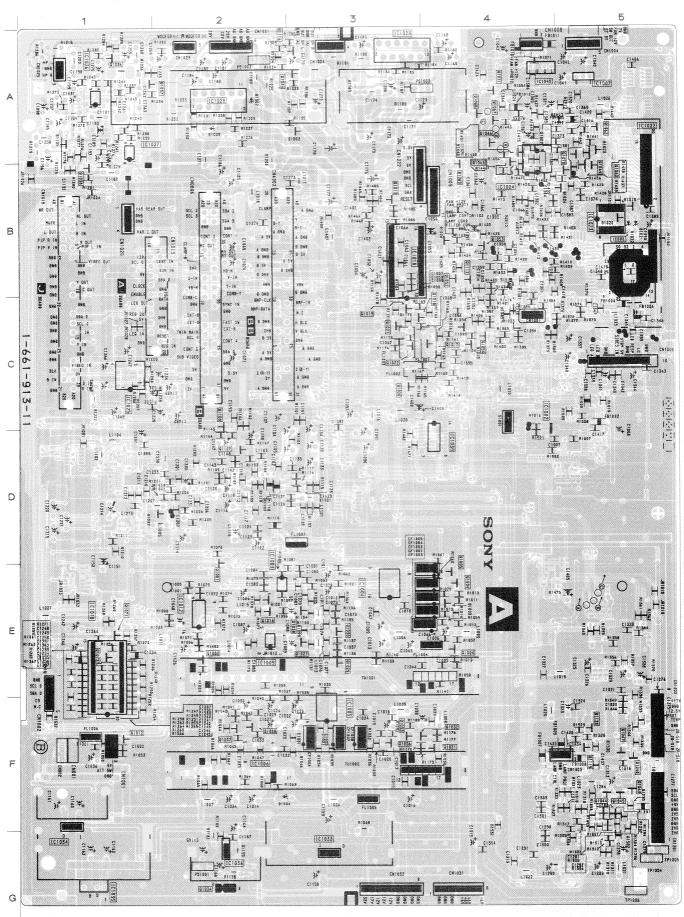


— J Board —





- A Board (Conductor Side) -



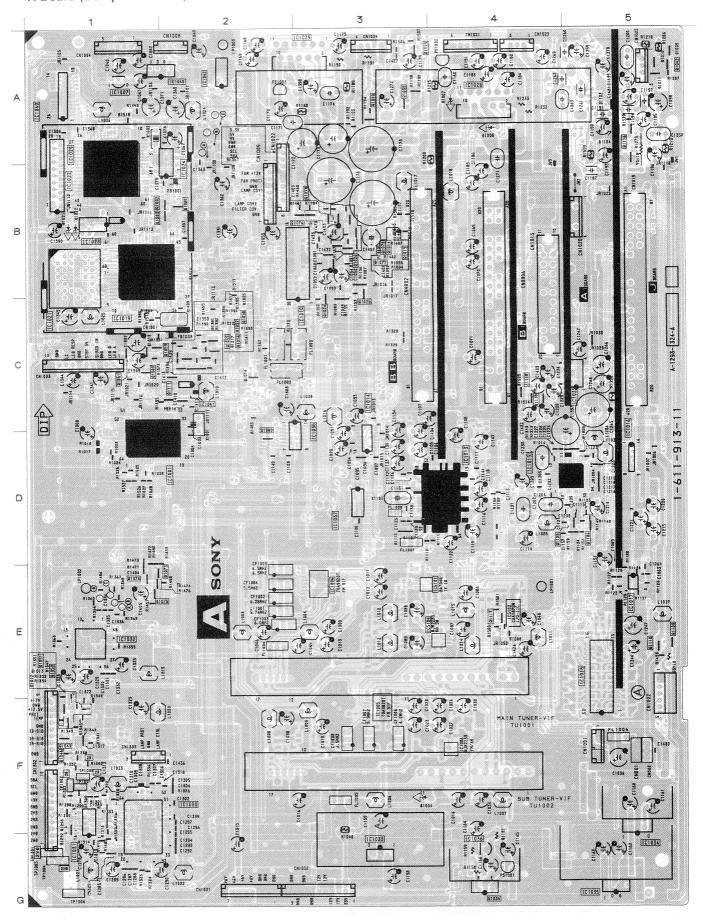
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

KL-

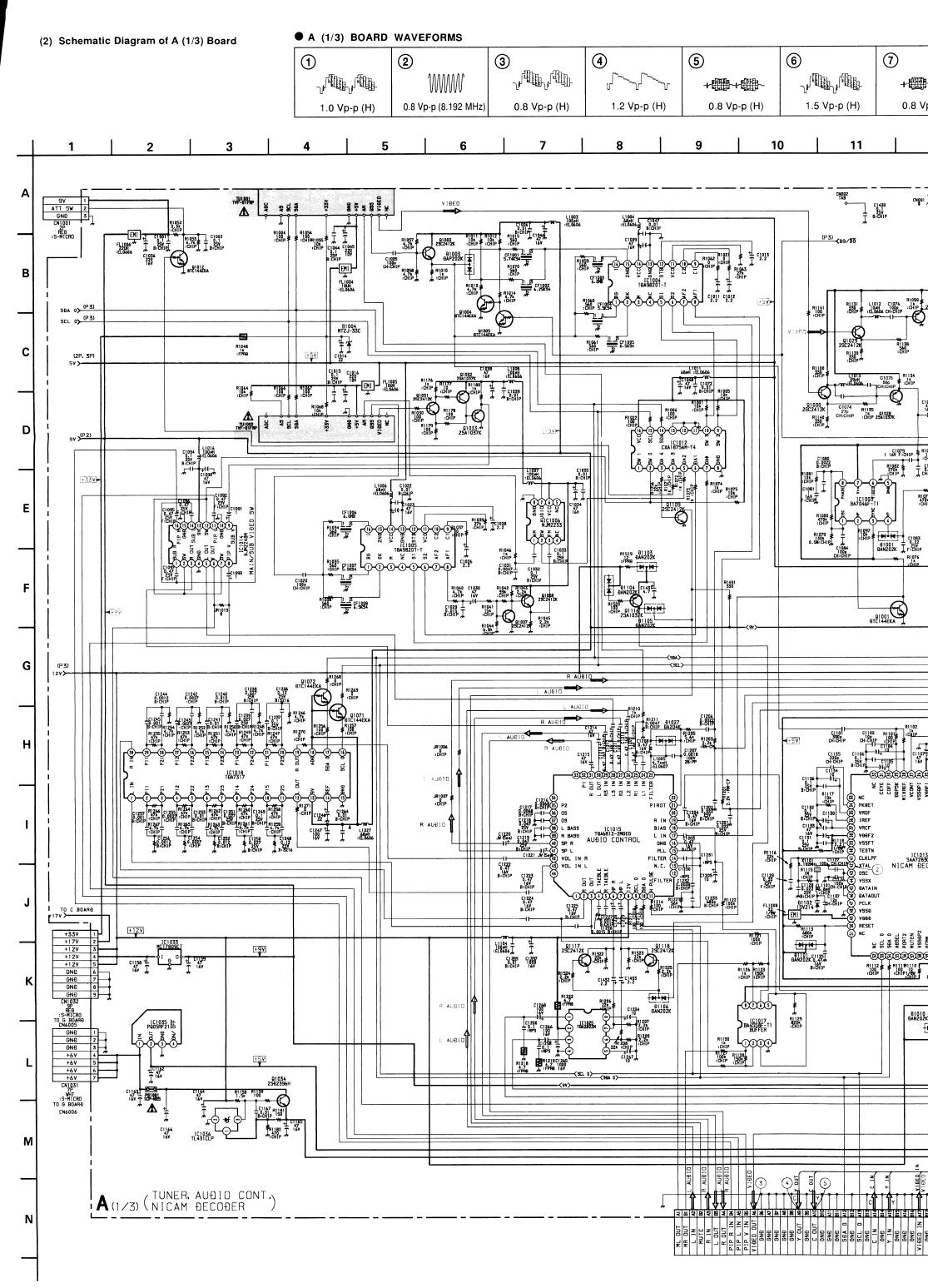
Ε

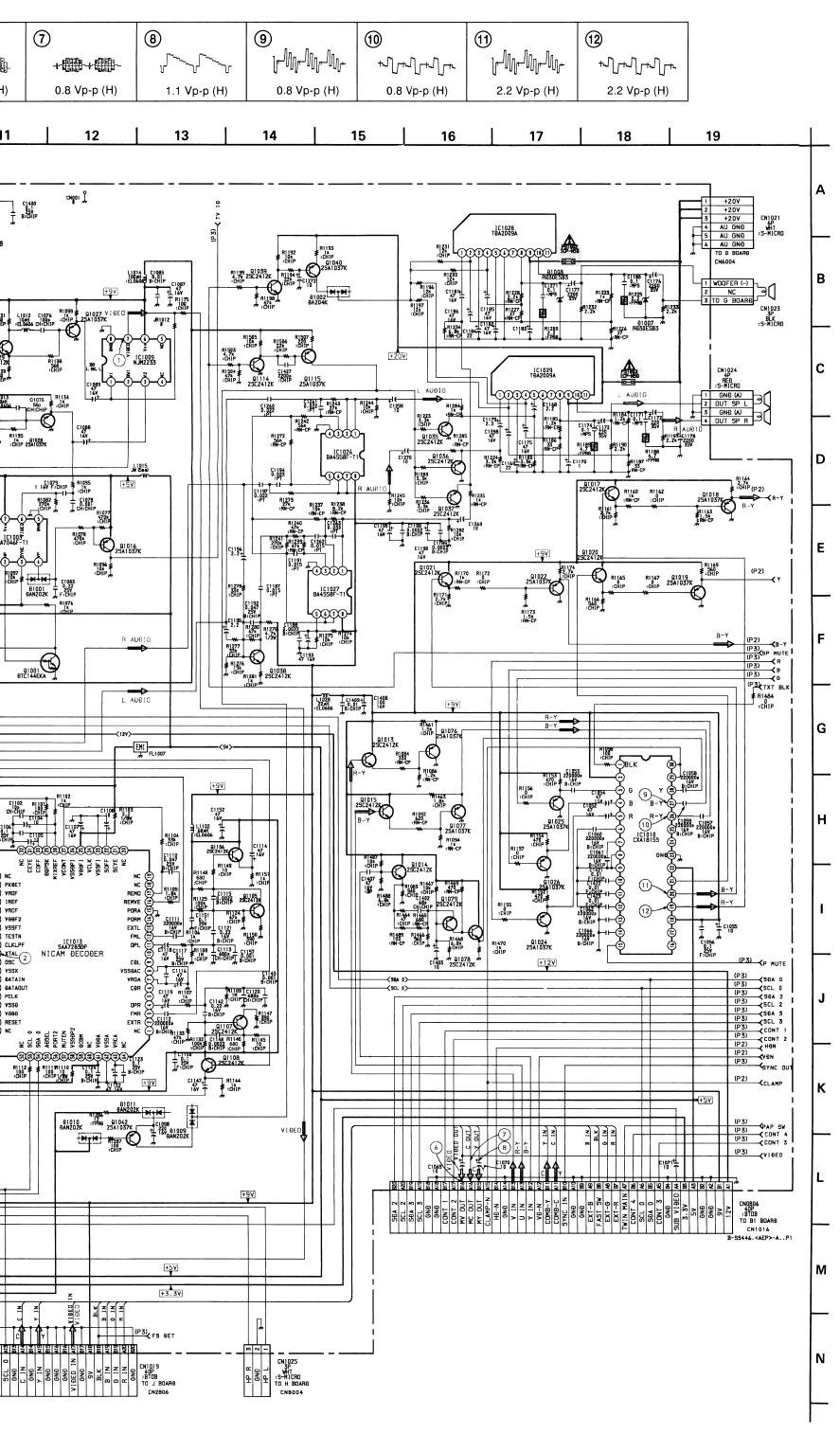
<u> </u>	AND S	, L III 100	MDOCIC	J11 L	OCATION			
	IC		Q1019	C-3		Q1112	B-4	
			Q1020	C-3		Q1114	A-3	
į	(Conductor)	(Component) Side	Q1021	C-3		Q1115		A-3
101001	(3000 /		Q1022	C-3		Q1116		A-5
IC1001		D-1	Q1024		C-3	Q1117		C-4
IC1003	E-2		Q1025		C-3	Q1118		C-4
IC1004	E-3	E-3	Q1026		B-3	Q1119	F-5	.
IC1005	F-3		Q1027	E-3		Q1120	F-5	
IC1006	F-2	F-4	Q1028	E-3		Q20		
IC1007	A-5	A-1	Q1029	E-3	ŀ			
IC1009	E-2		Q1030	E-3			DIODE	
IC1010	B-3	B-3	Q1031	F-4	ł		10	10
IC1012	E-2		Q1032	F-4			(Conductor)	(Component) Side
IC1013		D-4	Q1033	F-3		D1001	E-2	
IC1014		D-3	Q1034	G-2	G-4	D1002	A-3	
IC1015		D-4	Q1035	A-3	G-4	D1003	E-4	
IC1017		E-5		A-1		D1004	F-2	F-3
IC1018	E-1	E-5	Q1036	A-1		D1007	A-2	A-4
IC1019		B-1	Q1037	B-1		D1008	A-2	A-4
IC1020		A-1	Q1038	B-1		D1009		A-5
IC1021		B-1	Q1039		A-3	D1010		A-5
IC1022	B-5	B-1	Q1040		A-3	D1011		A-5
IC1023	B-5	B-1	Q1042		A-5	D1012		F-1
IC1024	B-4	B-2	Q1043	F-5	1	D1012		F-1
IC1025	C-1	C-5	Q1044	F-5	1	D1014		C-2
IC1026	A-1		Q1045	F-5		D1015	C-4	0.2
IC1027	A-1		Q1046		F-1	D1018	0 4	C-1
IC1028	A-2	A-4	Q1047	F-5		D1019	B-5	•
IC1029	A-3	A-3	Q1048	F-5		D1020	B-5	
IC1030		F-1	Q1049		F-1	D1021	B-5	B-1
IC1031		G-1	Q1050		F-1	D1022	B-5	B-1
IC1032		E-1	Q1051		F-1	D1024	B-5	· .
IC1033	G-3	G-3	Q1052	B-4	l	D1026	B-4	
IC1035	G-1	G-5	Q1053	B-4		D1027	D-2	
IC1036	G-2	G-4	Q1059		C-1	D1101	<i>D L</i>	D-3
IC1041		C-2	Q1060		C-1	D1102	D-3	D-3
IC1042		A-2	Q1061		C-1	D1103	D-3	A-5
IC1043	A-4	A-2	Q1062	A-5		D1103		A-5
			Q1064	B-5		D1105	A-1	A-3
			Q1065	B-4		D1106	,, ,	A-5
TR	ANSIST	OR	Q1066	A-4		51100		A-3
	(Conductor)	(Component)	Q1067 Q1068	A-4 A-4	ŀ		T. W. C.D.	
04004	\ Side /	\ Side /	Q1069	B-4	L		TUNER	
Q1001	E-2 E-4		Q1070	B-5			(Conductor)	(Component)
Q1003	E-4 E-4		Q1071	E-1			(Side /	\ Side /
Q1004	-		Q1072	E-1		TU1001	E-3	E-3
Q1005	E-4 F-2		Q1076		В-3	TU1002	F-3	F-3
Q1007 Q1008	F-2 F-2		Q1077		B-3			
Q1011	A-4		Q1078		B-3	C	RYSTAL	
Q1012	F-1	l	Q1079		В-3			
Q1013	B-3		Q1105		D-5		(Conductor)	(Component) Side
Q1014		B-3	Q1106		D-5	X1001	C-4	C-2
Q1015		B-3	Q1107	D-2		X1001 X1002	A-4	O-2 A-1
Q1016	E-2		Q1108	C-2		X1002 X1101	D-3	D-3
Q1017	C-4		Q1109		E-5	ATTO	J-3	J-3
Q1018	C-4	C-1	Q1110		E-5			

— A Board (Component Side) —

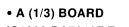


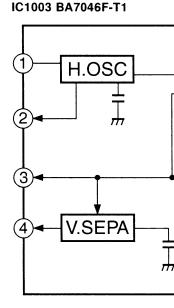
- · Pattern from the side which enables seeing.
- · : Pattern of the rear side.



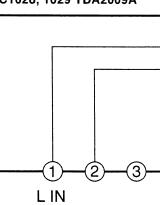


Ref.	Pin No.	Voltage [V]	Γ
IC1003	1 2 3 4 6 8	2.0 4.5 0.7 4.9 0 1.8	
IC1004	1 2 5 6 7 8 9 10 11 12 15 16	2.6 0 5.0 5.0 2.3 2.2 2.1 2.2 2.7 4.4 2.6 0	
IC1005	1 2 3 5 6 7 8 9 10 11 12 15 16	2.5 0 0 4.6 4.6 2.3 2.2 2.3 2.2 2.7 4.3 2.6 0	
IC1006	1 2 3 6 7	5.5 4.5 5.4 9.0 4.7	
IC1009	1 2 3 6 7	5.4 0.9 5.5 8.9 4.7	
IC1010	1 2 3 4 5 6 7 8 9	0 7.6 5.0 4.6 4.6 2.9 2.9 0 0	





• A (1/3) BOARD IC1028, 1029 TDA2009A



● A (1/3) BOARD VOLTAGE LIST

Α

В

С

D

Ε

F

G

Н

K

L

Μ

Ν

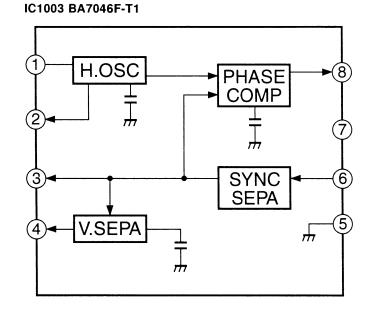
(P3) ← MUTE

CN0806 40P :BTOB TO B1 BOARD CN1016 S\$446.<AEP>-A..P1

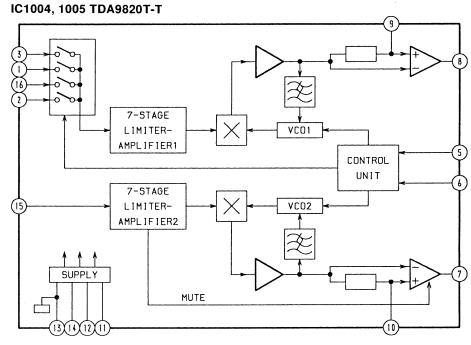
CN1023 3P BLK :S-MICRO

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC1003	1	2.0		11	4.4		63	2.4	IC1018	1	4.5	IC1029	1	0.8		E	3.3	Q1037	В	0.2
	2	4.5		12	4.4	IC1014	1	4.5		2	4.5		2	1.5	Q1018	В	1.5	1	E	0
	3	0.7		13 14	2.9	101014	2	2.4		3 4	4.5 4.5		3 4	10.3 1.2	41010	Ĕ	2.1	Q1038	В	1.3
	4	4.9 0		15	3.0 0		3	3.9		5	4.5		5	0	<u> </u>				С	5.3
	8	1.8		18	7.5		5	3.8		6	4.5		8	lő	Q1019	В	3.7	l	E	0.7
<u> </u>		1.0		19	3.0		6	3.6		7	4.5		10	l	l	E	4.3	0.1000		
IC1004	1	2.6		20	2.5		7	2.4		8	4.5			 	Q1020	В	4.3	Q1039	B C	0.7 0
1	2	0		21	3.1		8	2.7		9	4.5	IC1033		12.3	~	Ē	3.7		C	U
1	5	5.0		26	5.1		9	4.8		10	4.5		0	9.0	 		ļ	Q1042	В	7.8
1	6	5.0		27	5.3		11 14	4.5 0		11	4.5	IC1036	1	2.5	Q1021	В	3.9		С	-1.9
1	7 8	2.3 2.2		28	5.4		16	4.6		12	4.5		3	4.0		E	3.3		E	8.7
1	9	2.2		29	2.7			4.0	ŀ	14	4.5				Q1022	В	1.9	Q1071	С	4.6
	10	2.2		30	2.7	IC1015	2	6.1		16 17	4.4 3.6	Q1001	В	4.5	Q.022	Ē	2.5	Q1071	E	4.6 4.6
1	11	2.7	IC1012	1	0		3	6.1		19	4.5		С	0.2						4.0
	12	4.4		2	2.4		4	6.0		20	4.5	Q1002	В	0	Q1024	В	0.7	Q1072	С	3.9
	15	2.6		3	4.6		5	0		21	4.5		Ē	O		E	1.4		E	4.0
1	16	0		4	4.7		6 7	6.1		22	4.5			ļ	Q1025	В	0.7	Q1076	В	3.7
101005		2.5		5	4.6		9	6.1 *		23	4.5	Q1003	В	4.4		E	1.4	Q1076	Ë	4.3
IC1005	1 2	2.5 0		6	4.6		10	*		24	4.5		E	3.8						7.5
	3	0		7 9	4.6 5.0		11	0.2		25	4.5	Q1004	В	0	Q1026	В	0	Q1077	В	2.8
	5	4.6		10	5.0		13	3.1		26	4.5		Ċ	9.0		Е	1.4		E	3.4
	6	4.6		14	4.5		14	3.2		27	4.5				Q1027	В	1.2	Q1078	В	0
	7	2.3		15	4.5		15	4.0		28 29	4.5 4.5	Q1005	В	1.0	Q.027	Ē	1.8	Q1078	E	5.8
	8	2.2					17	6.0		30	4.5		С	0						3.6
	9	2.3	IC1013	3	2.3		18	6.0			7.0	Q1007	В	0.6	Q1028	В	1.2	Q1079	В	3.5
	10	2.2		4	2.4		19	6.0	IC1025		5.6	~	C	4.5		E	1.9		С	6.4
1 1	11	2.7		7	2.4		21	6.1		3	5.7				Q1029	В	1.8		E	2.8
1	12	4.3		8 11	0 2.4		23 24	6.1 6.1		5	0.6	Q1008	В	4.5	Q.020	C	7.8	Q1105	В	2.3
1 1	15 16	2.6 0		12	2.4		25	6.0		6	0		E	3.9		E	1.2	Q1103	C	4.7
	10			16	2.3		26	6.0		7 8	0 0.6	Q1009	В	8.1					Ē	0
IC1006	1	5.5		17	2.4		27	6.0		l °	0.6		C	8.8	Q1030	В	1.8			
	2	4.5		22	2.3		28	6.0	IC1026	1	4.5		E	8.9		C E	7.8 1.2	Q1106	В	4.7
	3	5.4		27	2.4		29	6.0		2	4.5	04040					1.2		E	4.1
	6	9.0		28	2.3		30	6.1		3	4.5	Q1010	B C	2.0	Q1031	В	2.1	Q1107	В	2.3
	7	4.7		29	2.3		31	6.1		5	4.5		E	1.8 0		С	0	Q	c	4.7
IC1009	1	5.4		30 34	2.3 0.2		32 36	0 6.0		6	4.5 4.5					E	1.5		E	1.7
	2	0.9		35	2.3		36 37	6.0		_ ′	4.5	Q1012	В	4.6	Q1032	В	8.3	04400		
	3	5.5		36	2.3		38	6.1	IC1027	1	4.5		E	0	Q1032	C	3.0	Q1108	В	4.7
	6	8.9		37	2.3		39	6.1		2	0	Q1013	В	5.5		Ē	8.9		E	7.0
	7	4.7		41	4.0		40	6,1		3	4.3	Q1013	Ë	4.8				Q1109	В	0.7
IC1010	1	0		42	3.4		41	6.1		5	4.5			7.0	Q1033	В	3.0		С	0.1
101010	2	7.6		43	2.4		42	6.1		6	4.5	Q1014	В	3.5	l	E	3.6			
	3	5.0		44	0		43	6.1		7	4.5		E	2.8	Q1034	В	3.9	Q1110	В	0
	4	4.6		45	2.7	IC1017	1	4.7	IC1028	1	1.1	Q1015	В	5.4	المتاتة	E	3.3		С	9.0
	5	4.6		46	2.6	101017	2	5.4		2	1.3		l E	4.8	ļ					
	6	2.9		47	2.3		3	5.4	l	3	9.6			7.0	Q1035	В	0.2			
	7	2.9		50 53	4.6 3.8		5	5.4	l	4	1.4	Q1016	В	4.4	1	E	0			
	8	0		54	4.4		6	5.4	Ī	5	1.0	1	С	4.9	Q1036	В	0.2			
	9 10	0 4.4		61	4.8		7	4.7	Ī	8	0.2	Q1017	В	3.9	1	Ē	0			
	10	4.4	I						I	10	0.2	13,017	"	3.3	l					

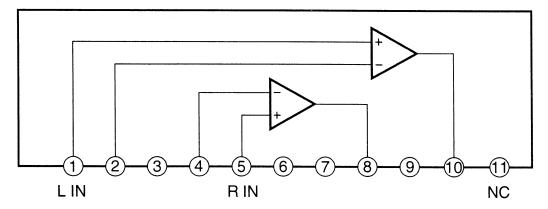
• A (1/3) BOARD

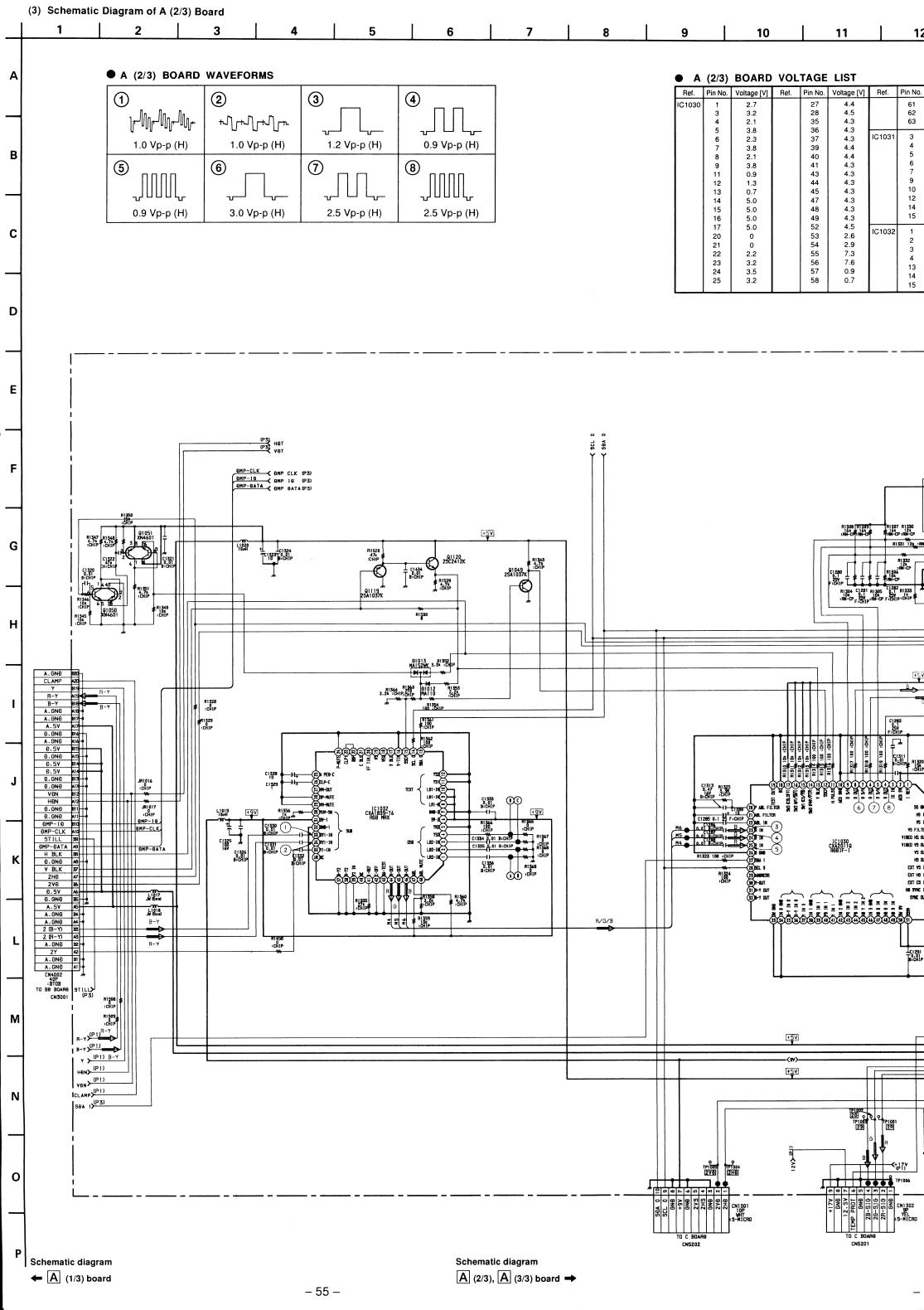


• A (1/3) BOARD



• A (1/3) BOARD IC1028, 1029 TDA2009A

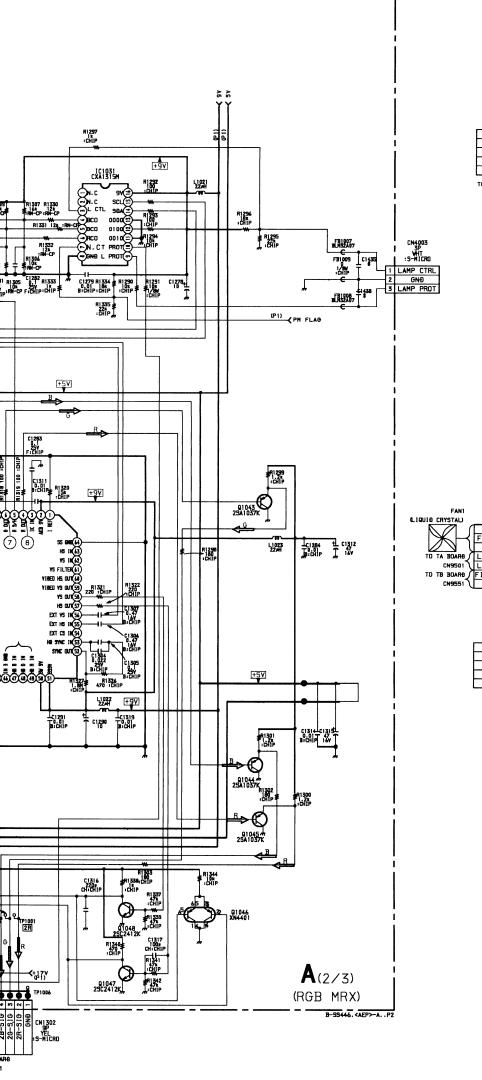


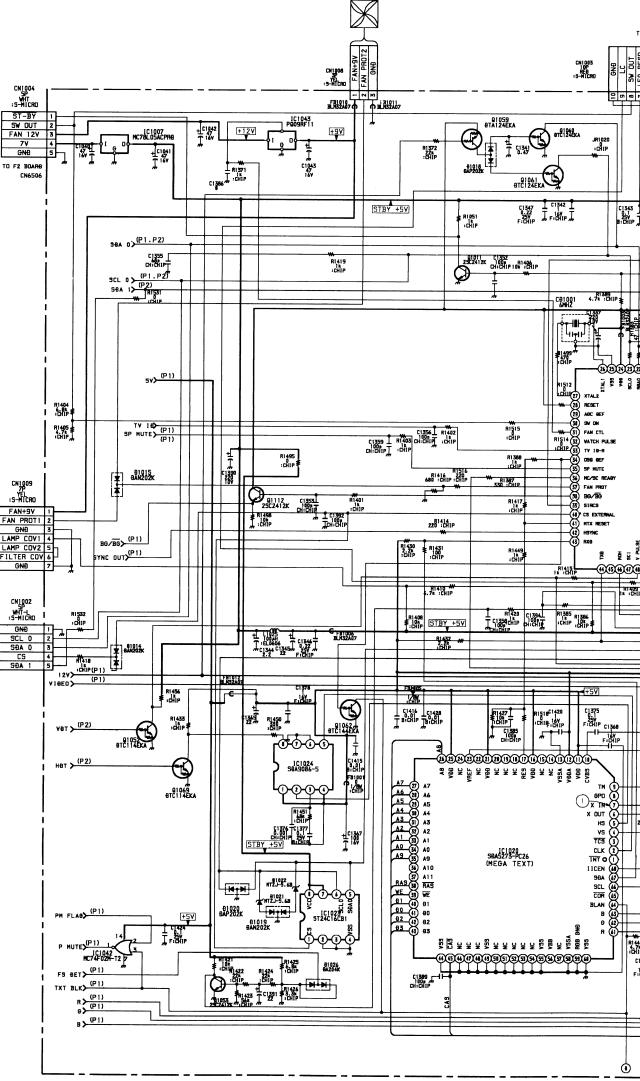


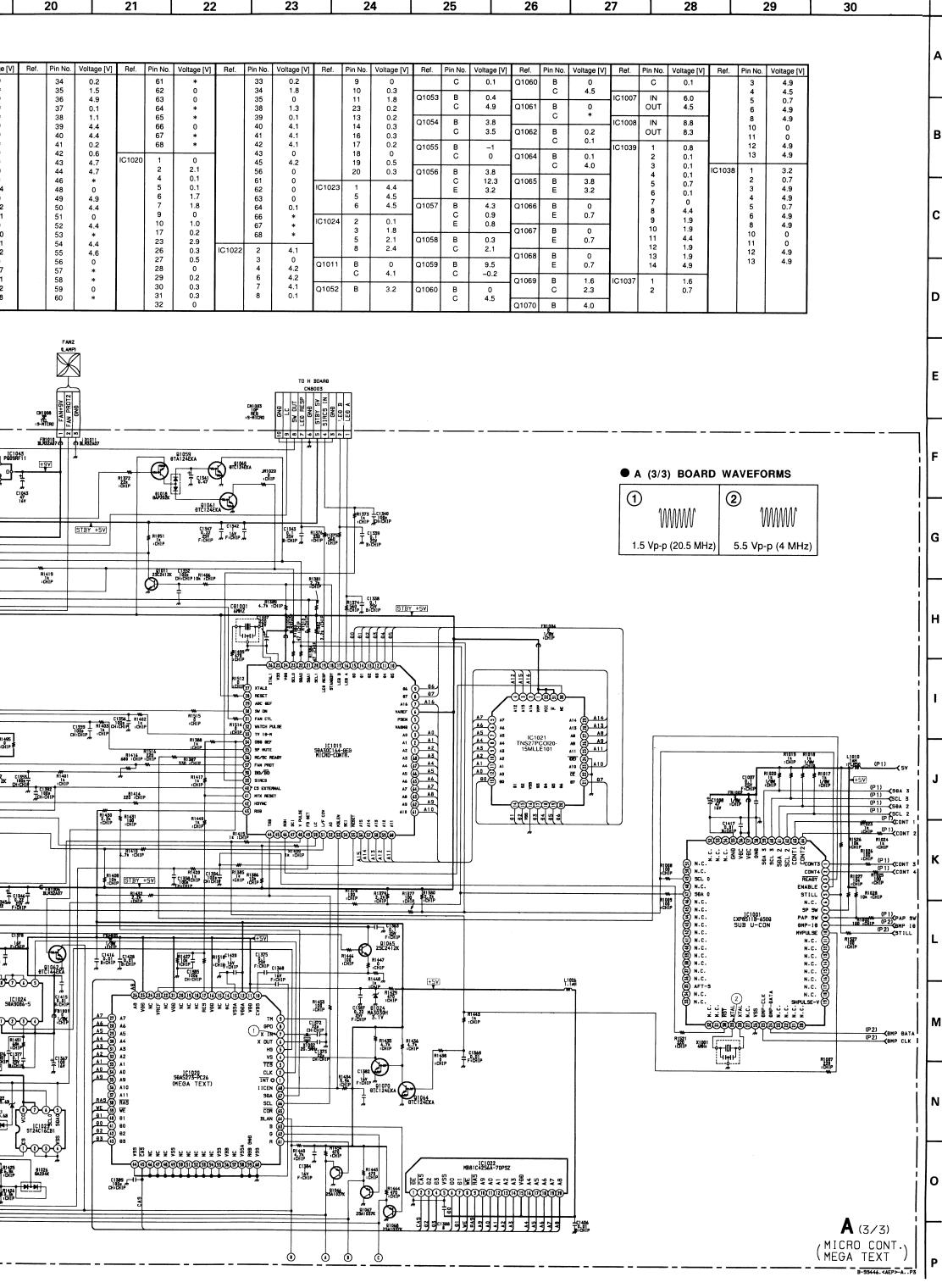
Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
	61 62 63	2.4 3.5 2.6		25 26 30	4.1 4.5 0		3 5 6	4.3 4.0 4.3
IC1031	3 4 5	5.3 4.4 4.4		33 34 35 44	4.4 4.4 4.7 2.5	Q1047	B C	0.2 4.0
	6 7 9	4.5 5.3 0		45 46	2.8 2.6	Q1048	B C	0.4 4.0
	10 0 48 12 9.0	8.9 1.6	Q1049	B E	0.7 1.3			
	14 15	3.6 4.0	Q1043	B E	2.2 0	Q1050	1 2	0.3 0.4
IC1032	1 2	6.2 6.2	Q1044	B E	2.0 2.7		5 6	0.3
	4 13		Q1045	B	2.0 0	Q1051	1 2 5	5.0 5.0 0.2
	14 45 	Q1046	2	4.0		6	0.2	

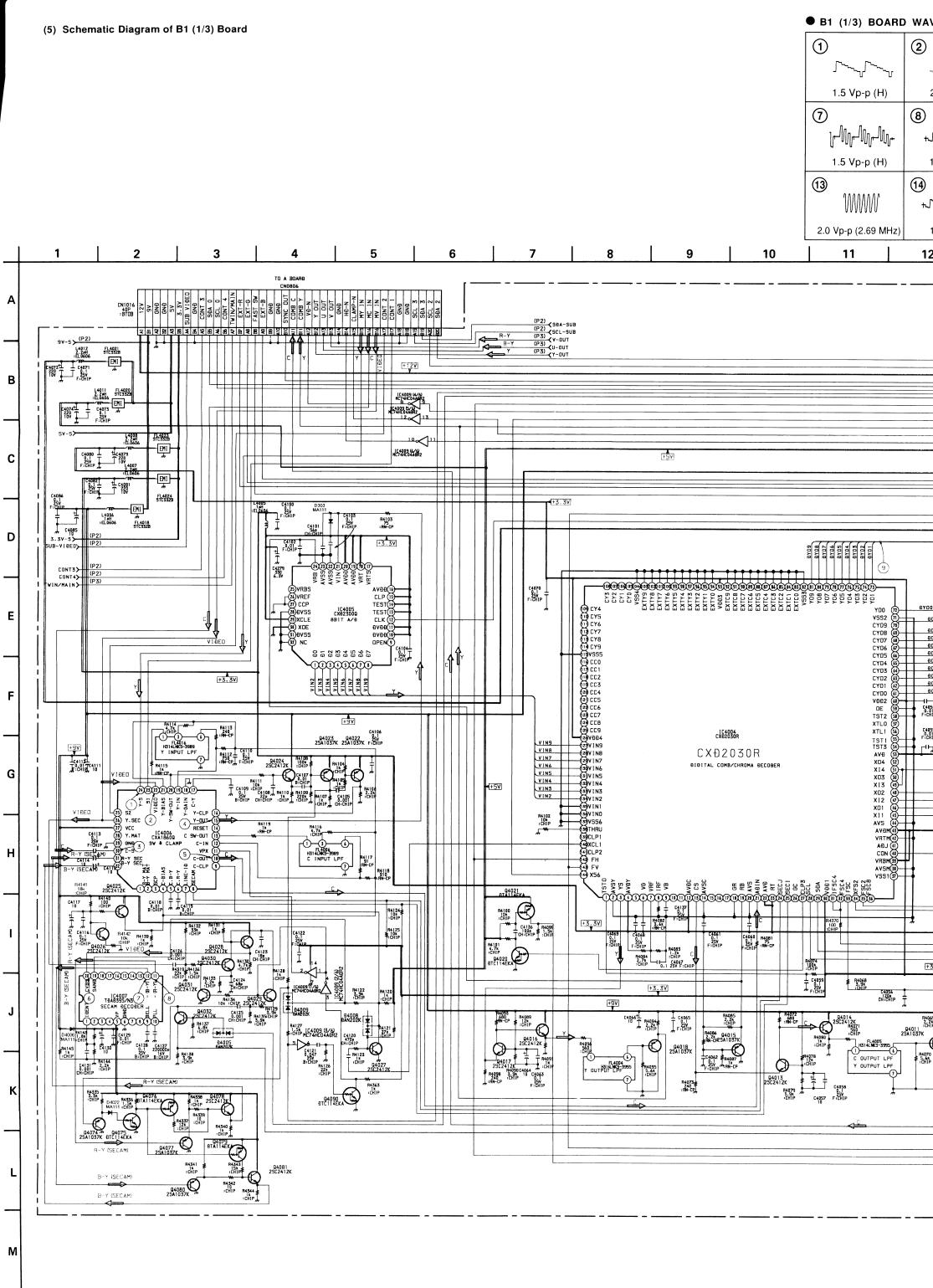
● A (3/3) BOARD VOLTAGE LIST

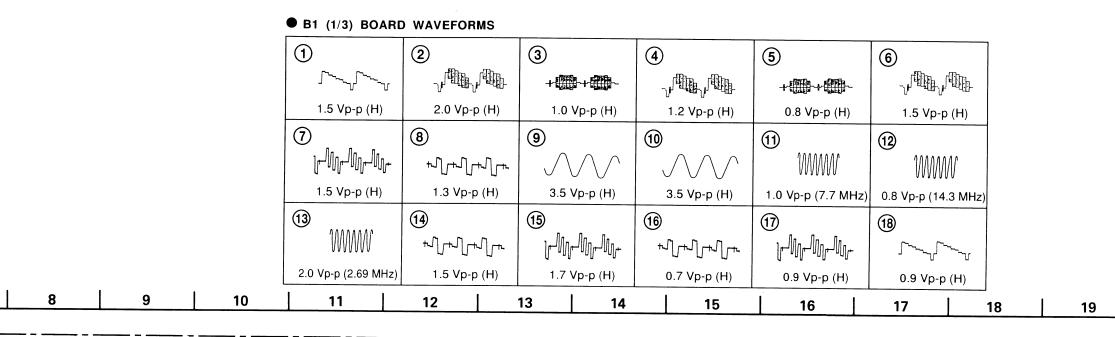
Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage
IC1001	1	0		8	*		34	0.2		61	*		33	0.2
	2	0		9	*	l	35	1.5		62	0		34	1.8
	3	4.9		10	*	I	36	4.9		63	0		35	0
	4	3.7		11	*	l	37	0.1		64	*		38	1.3
	7	0.1	1	12	*	l	38	1.1		65	*		39	0.1
	8	0.1		13	*		39	4.4		66	0		40	4.1
	9	0.9		14	*		40	4.4		67	*		41	4.1
	10	0.1		15	*		41	0.2		68	*		42	4.1
	24	0.1		16	*		42	0.6				ł	43	0
	25	4.9		17	*		43	4.7	IC1020		0		45	4.2
	28	2.5		18	0		44	4.7		2	2.1		56	0
	29	2.1		19	*		46	*		4	0.1	i	61	0
	47	4.5		20	4.4		48	0		5	0.1	l	62	0
	49	3.8		21	0		49	4.9		6	1.7	ł	63	0
	59	4.2		22	4.2		50	4.4		7	1.8	i	64	0.1
	60	4.5		23	4.1		51	0		9	0		66	*
	61	3.5		25	0		52	4.4		10	1.0		67	*
	62	4.0		26	2.0		53	*		17	0.2		68	*
	63	0		27	2.1		54	4.4		23	2.9			
	64	0		28	2.2		55	4.6		26	0.3	IC1022		4.1
04040		<u>-</u>		29	0		56	0		27	0.5		3	0
C1019	1	*		30	3.7		57	*		28	0		4	4.2
	2	*		31	2.1		58	*		29	0.2		6	4.2
1	3 7	*		32	2.2		59	0		30	0.3		7	4.1
	′	*		33	4.8		60	*		31	0.3		8	0.1
							l l			32	0			

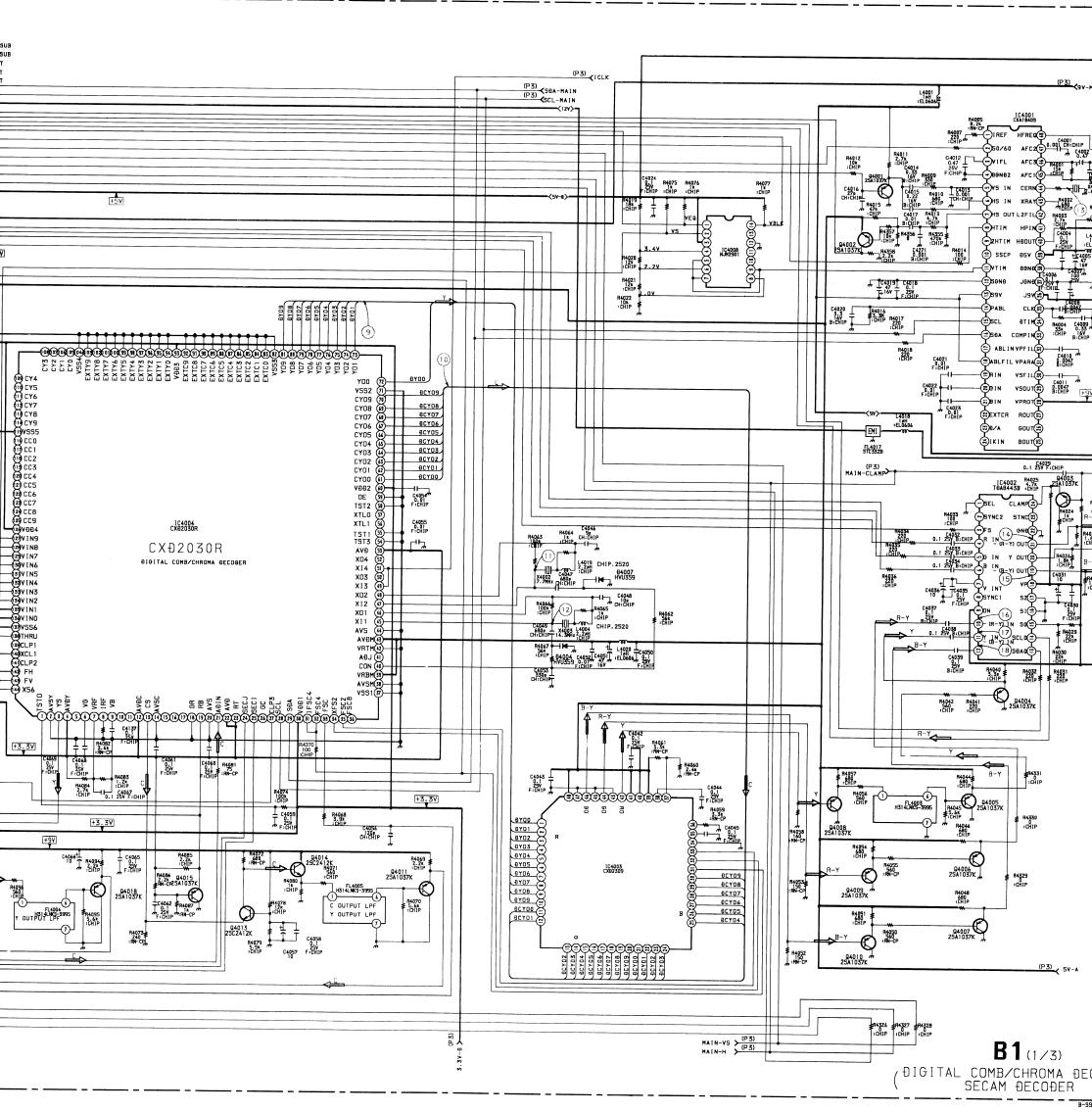


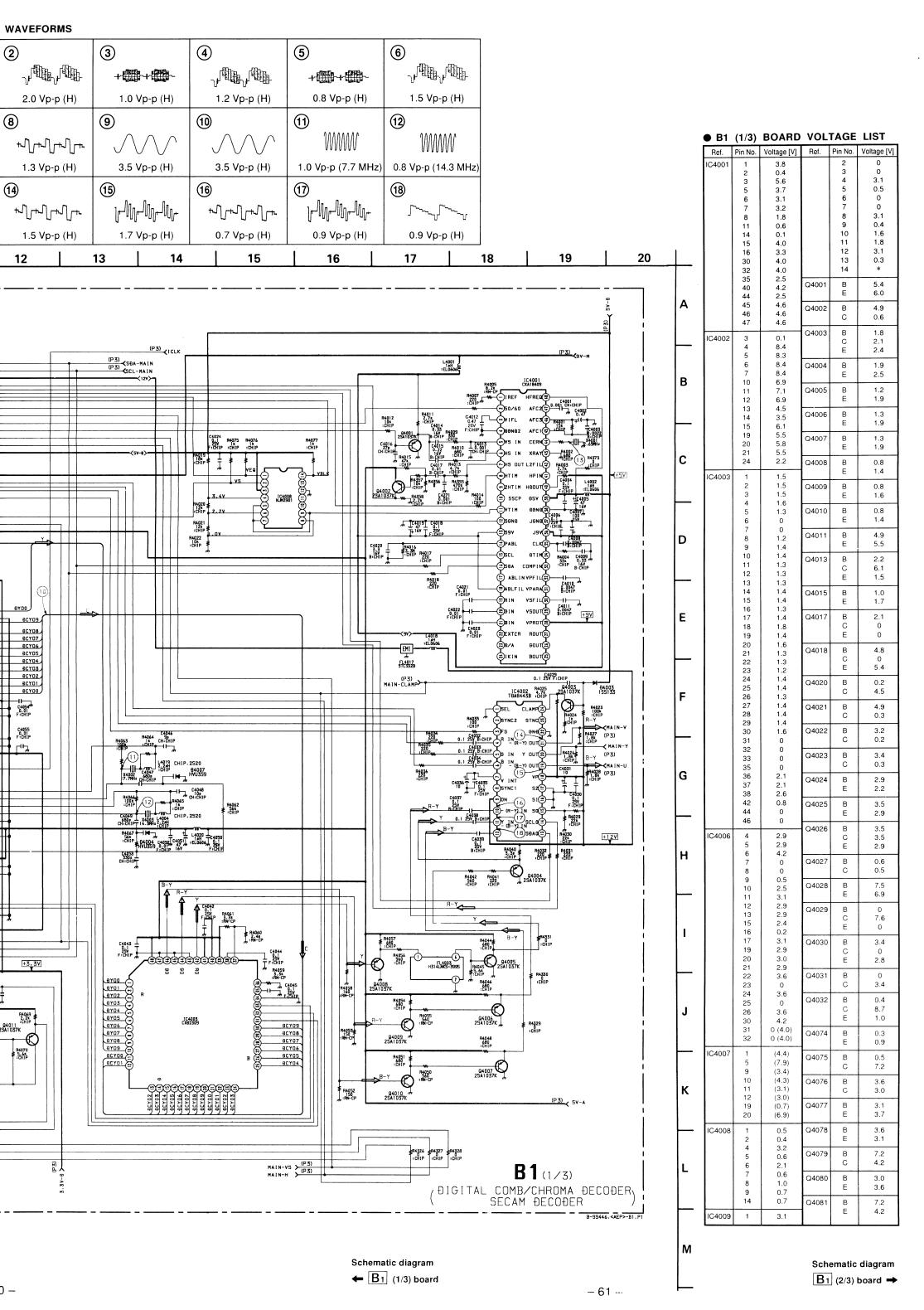


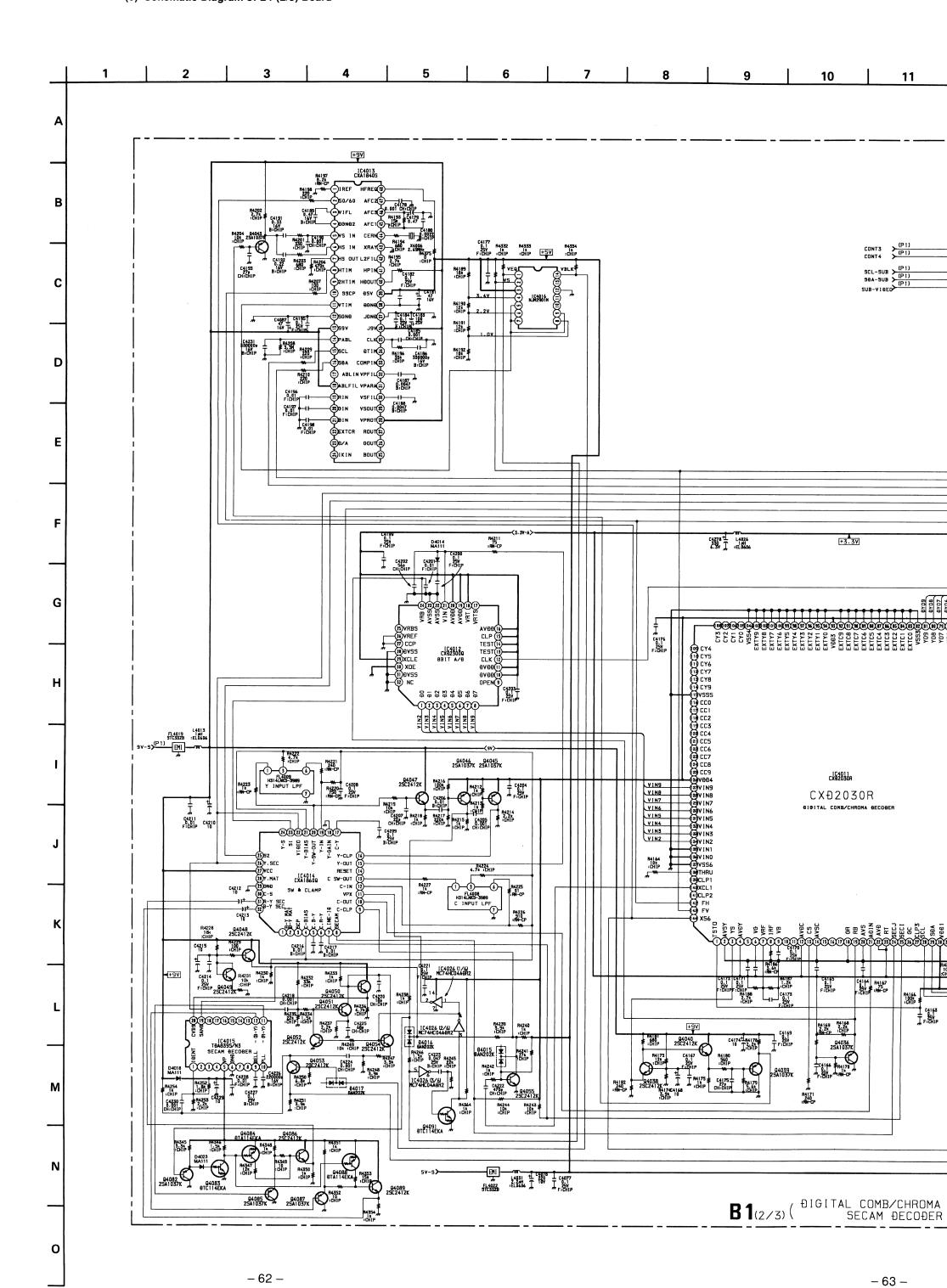


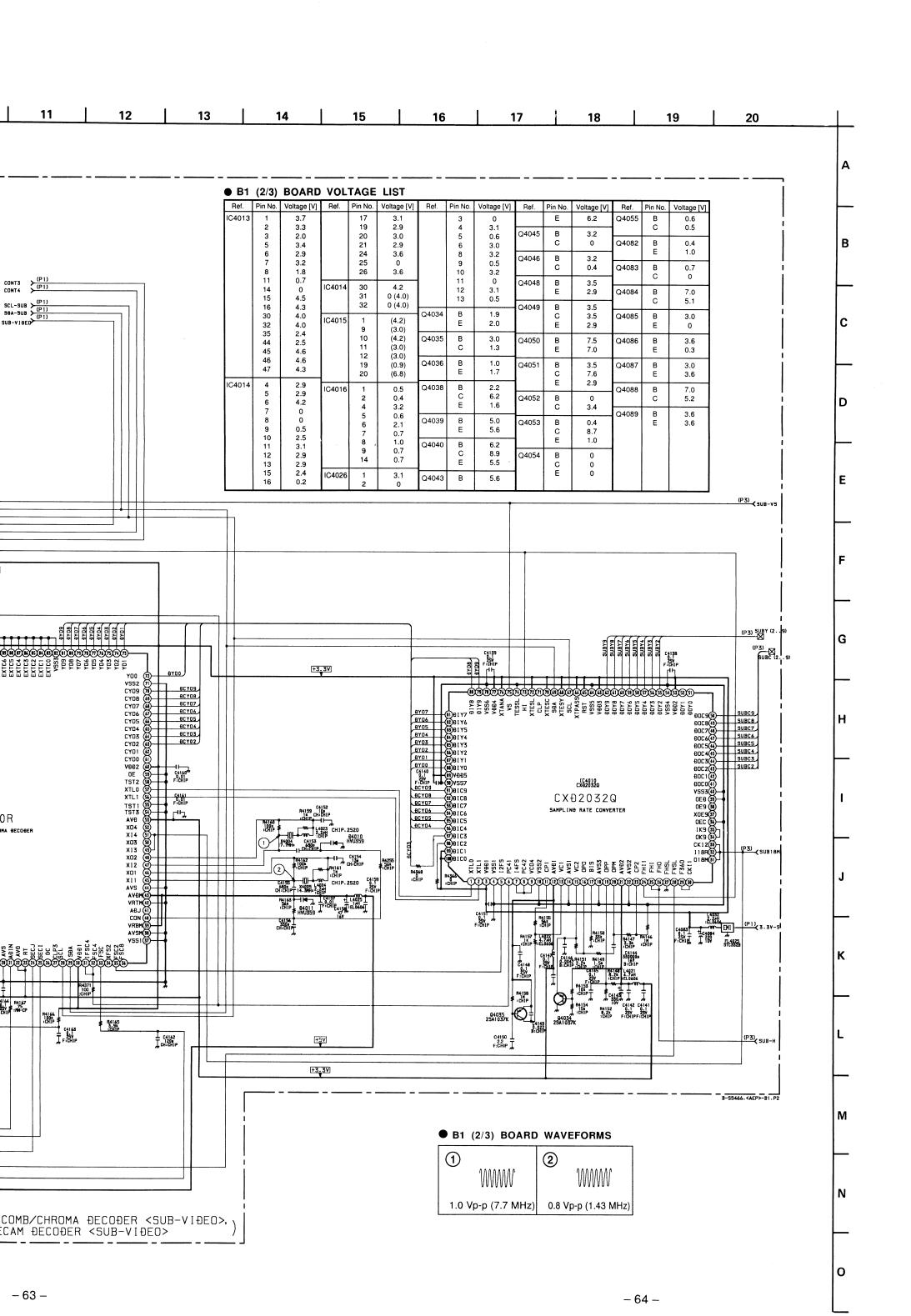


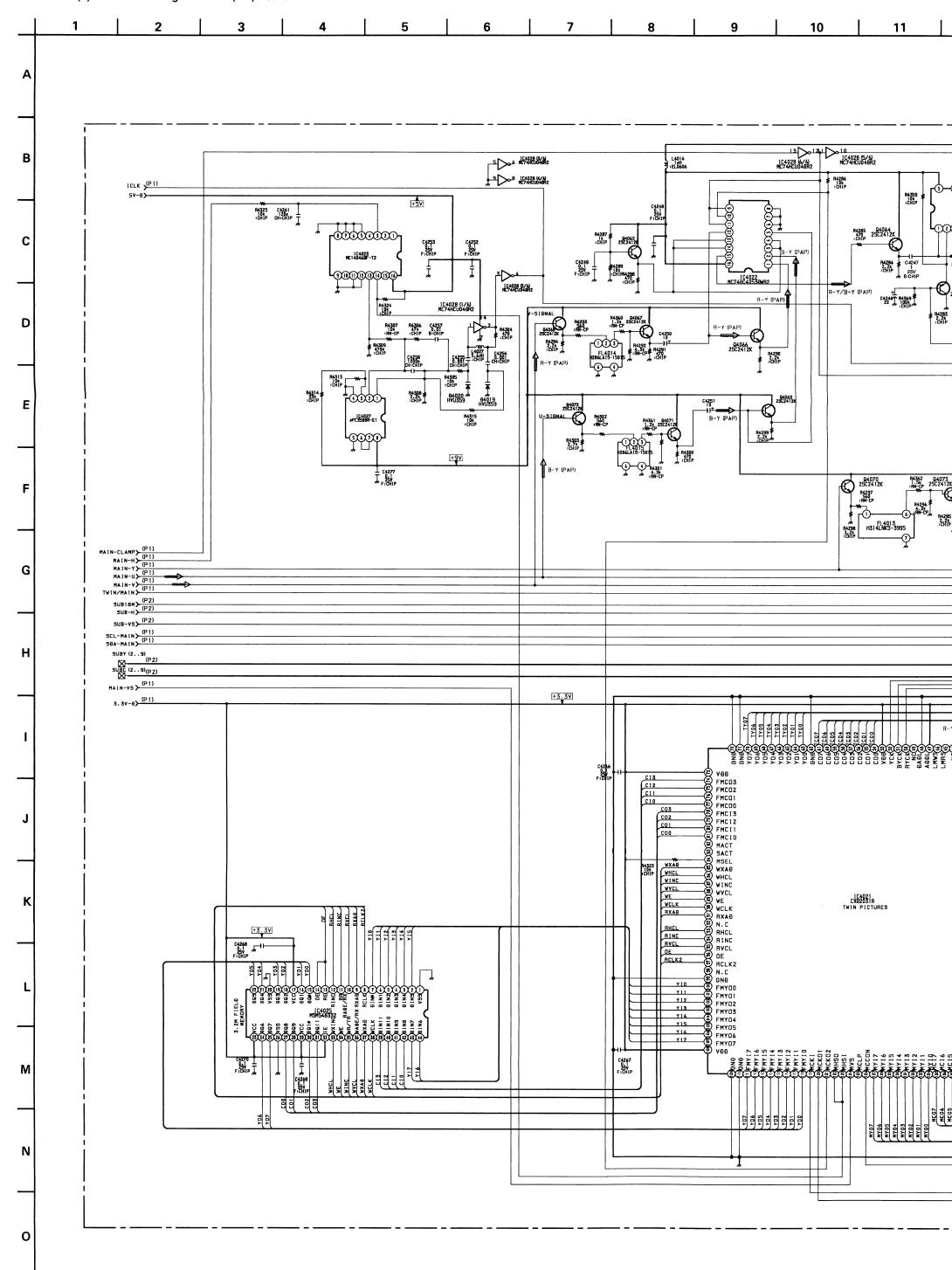


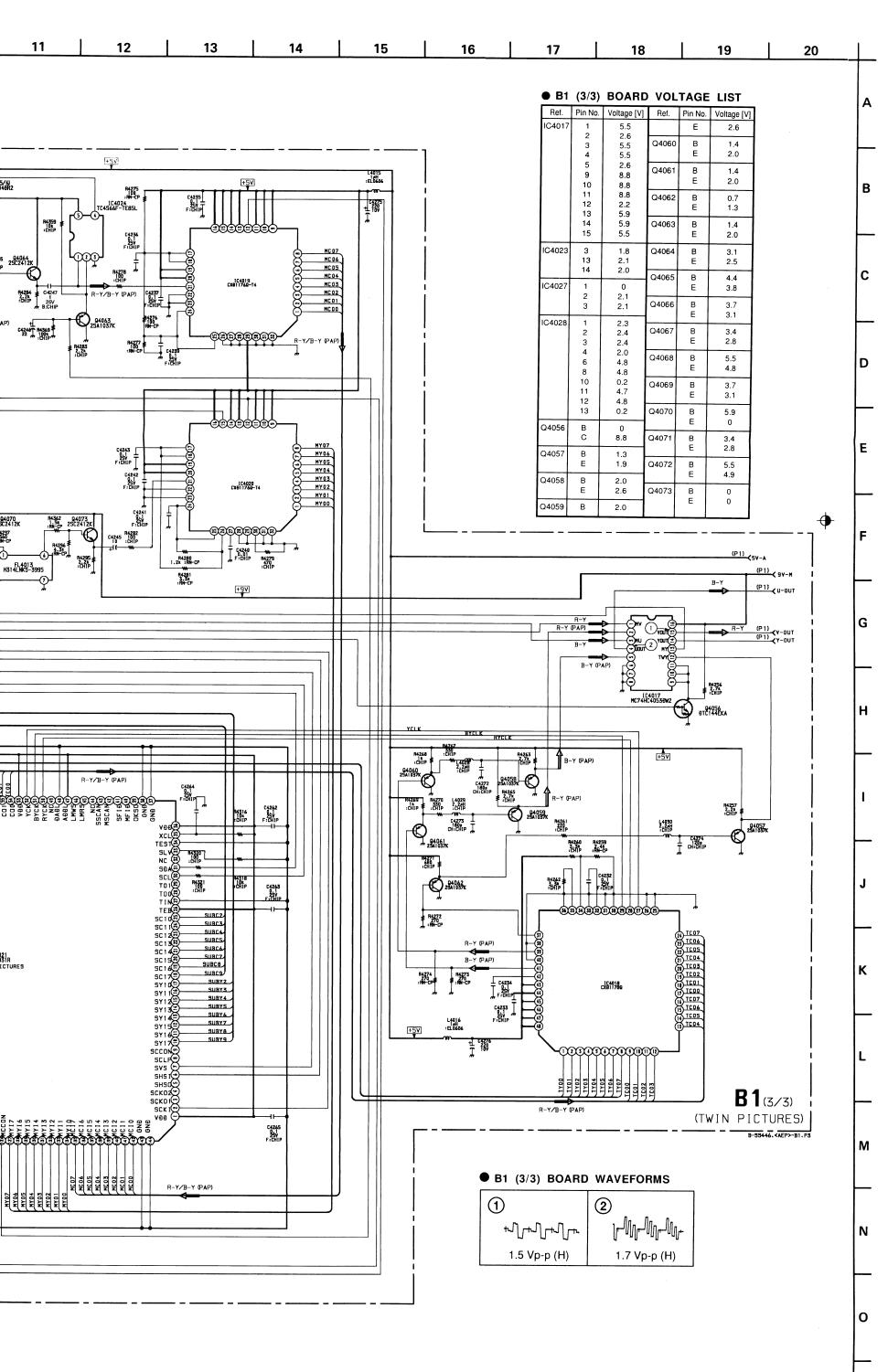






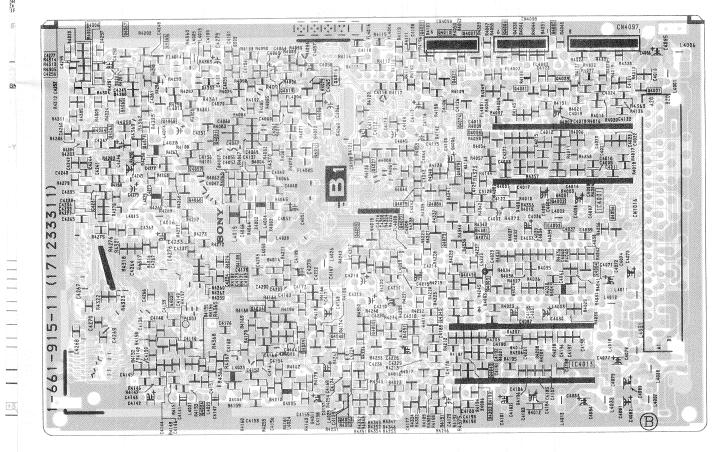






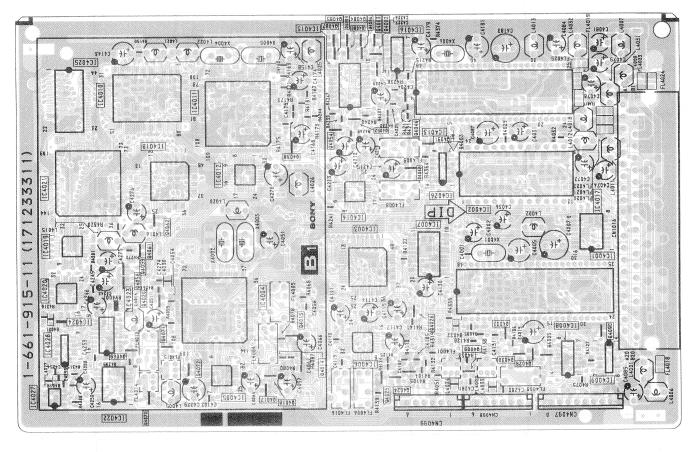
- B1 Board (Conductor Side) -

CHAN SAME



- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

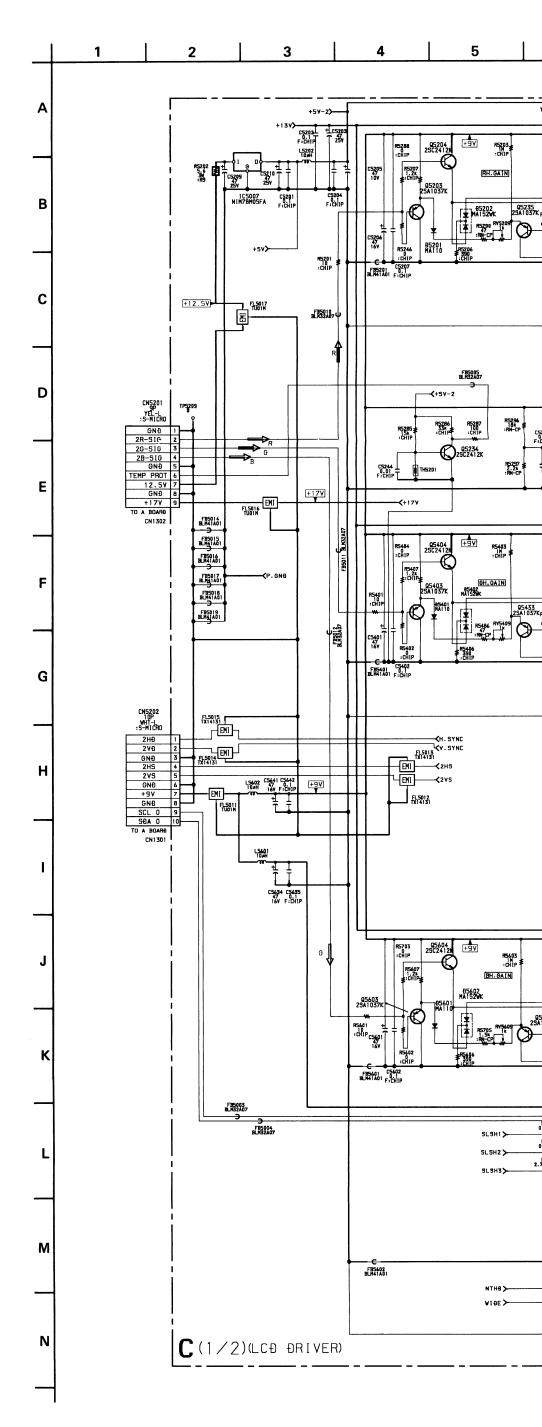
— B1 Board (Component Side) —

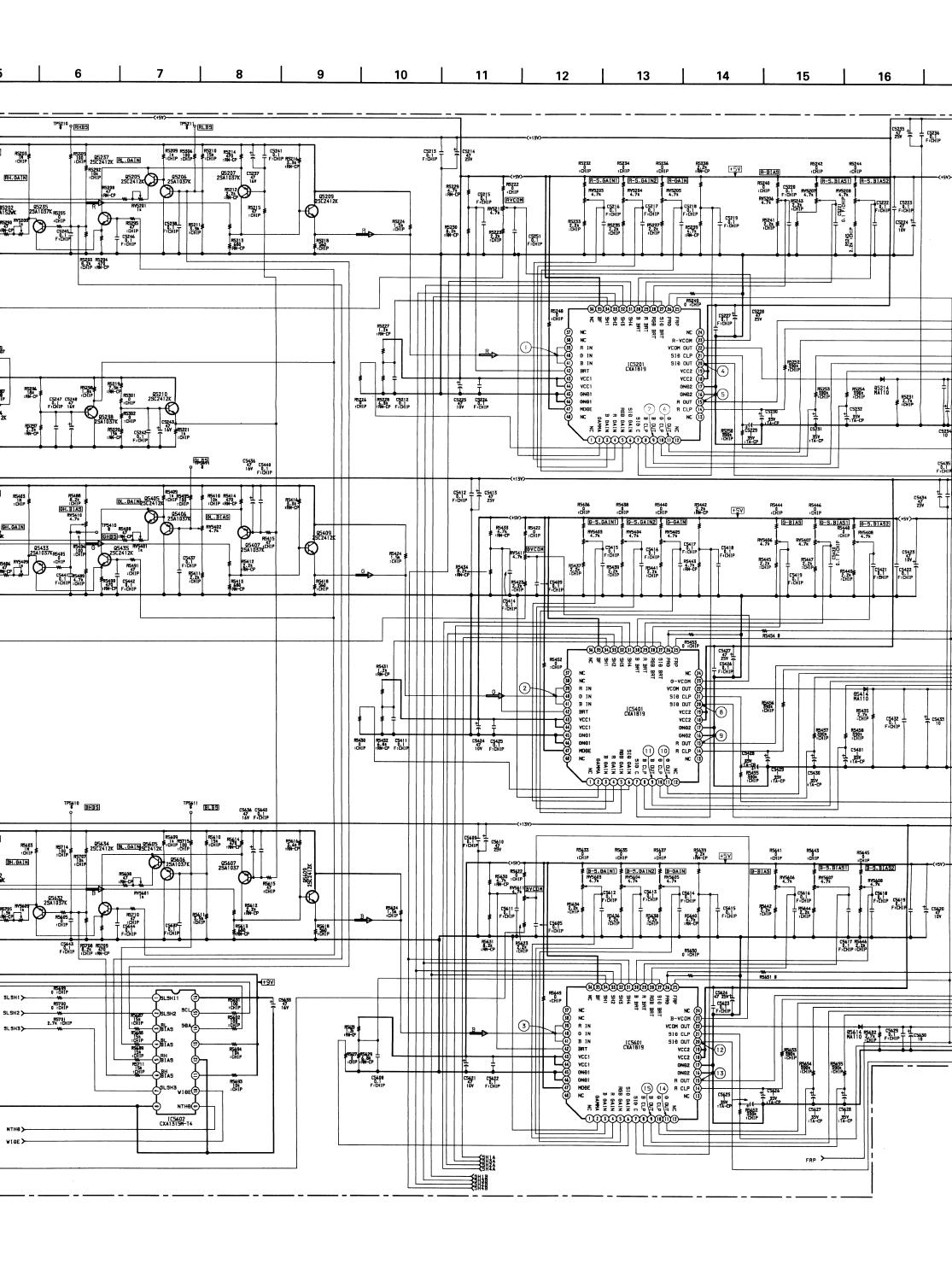


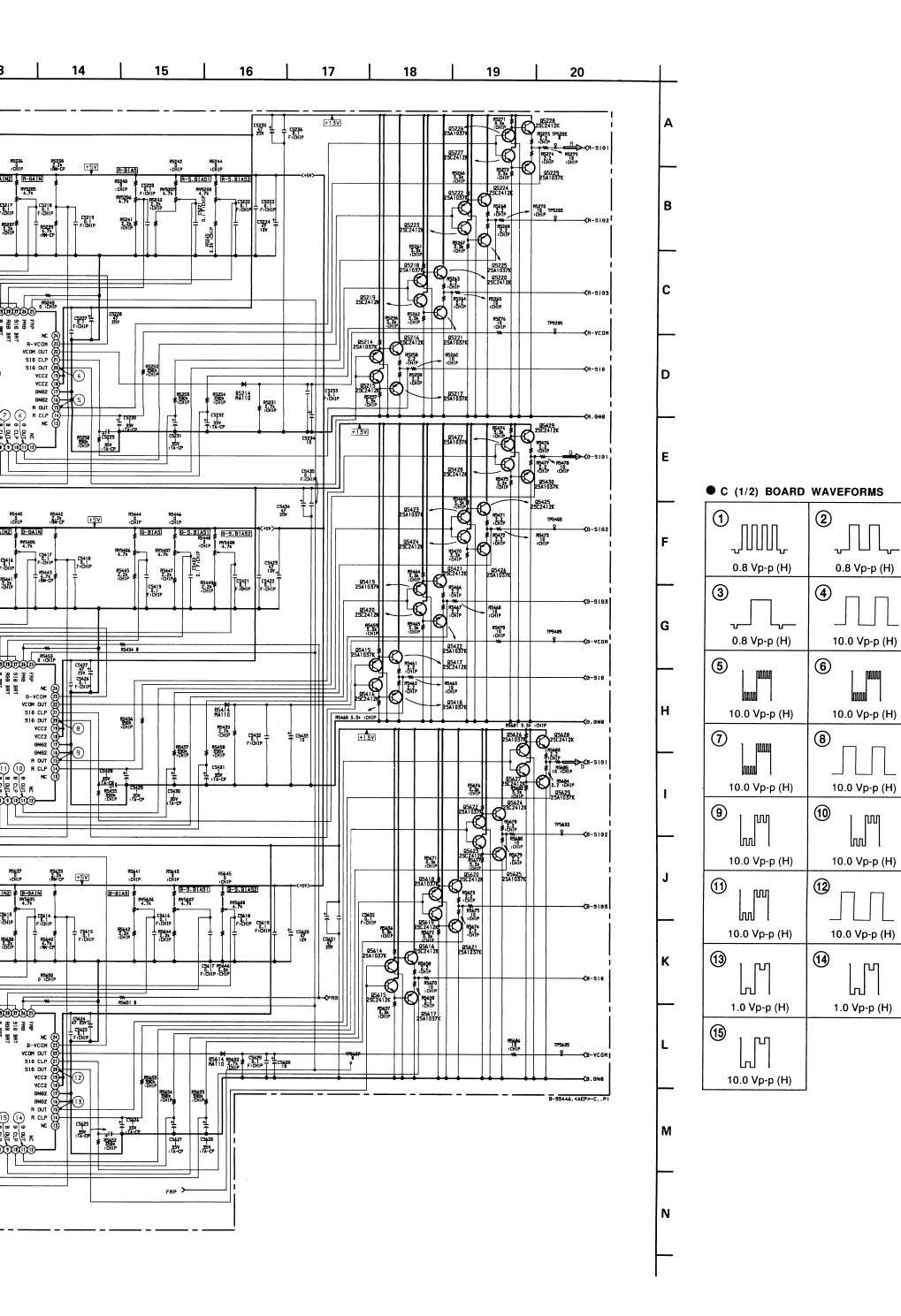
- Pattern of the rear side
- Pattern of the rear side.

С	(1/2)	BOARD	VOLTAGE	LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC5007	I 0	11.4 5.0		14 15	4.5 4.5	Q5419	B E	7.1 7.7
IC5201	2	0	Q5203	B E	2.2 2.8	Q5420	B E	7.1 6.5
	4 5	3.1 0	Q5204	B E	2.2 1.9	Q5421	B	7.7 7.1
	6 7 8	0 7.0 7.0	Q5205	В	3.0	Q5422	B E	6.5 0
	9 10	7.0 7.0		C E	0 2.4	Q5423	В	7.1
	11 14 15	0 7.0 7.0	Q5206	B C E	2.3 0 3.0	Q5424	В	7.7
	20 21	7.0 7.0	Q5207	В	5.2	Q5425	E B	6.5 7.7
	22 23 25	7.0 2.8 2.3		C E	3.1 5.9	Q5426	E	7.1
	² 6 27	0 4.2 0	Q5209	B C E	3.1 8.9 2.6	,	E	6.5 7.1
	28 29 30	3.7 3.2	Q5210	B E	5.9 5.2	Q5427	B E	7.1 7.7
	31 32 33	1.7 4.6 1.7	Q5214	В	7.0	Q5428	B E	7.0 6.5
	34 39	1.7 1.7 2.6	Q5215	E B	7.6	Q5429	B E	7.7 7.1
	40 41	2.6 2.6	Q5216	E B	6.4 7.6	Q5430	B E	6.4 7.1
105:::	42 47	3.2 4.9	Q5217	E B	7.0	Q5433	B C	3.0 1.0
IC5401	2 3 4	0 3.2 3.2		E	7.0	Q5435	E B	4.7
	5 6	4.1 0	Q5218	B E	7.0		C	5.9 1.0
	7 8 9	3.2 7.1 7.1	Q5219	B E	7.0 0	Q5603	B E	2.2 2.8
	10 11	6.9 7.1	Q5220	B E	7.6 7.0	Q5604	B E	2.1 1.9
	14 15 20	7.1 7.1 7.1	Q5221	B E	6.2 0	Q5605	В	2.9
	21 22	7.1 7.2	Q5222	B E	7.0 7.6	ļ	C E	5.9 2.3
	23 25 26	3.0 2.3 0	Q5223	B E	0 6.4	Q5606	B E	2.3 2.9
	27 28	4.2 4.3	Q5224	В	7.6	Q5607	ВС	5.2 0
	29 30 31	3.7 3.9 1.7	Q5225		7.0 6.4	Q5609		2.9
	32 33 34	1.7 1.7 4.6	Q5226	B	7.0	Q5614	E B	2.6 6.8
	39 40	2.6 2.6	Q5227	E B	7.0	Q5615	E B	7.4 6.8
	41 42 47	2.6 3.2 0	Q5228	E B	7.6	Q5616	E B	6.2 7.4
IC5601	2	0	Q5229	E B	0	Q5617	E B	6.8 6.2
	3 4 5	3.2 3.2 3.9		E	6.4	ļ	E	6.8
	6 7	0	Q5234	B C E	0.7 0 0	Q5618	B E	6.8 6.8
	8 9 10	6.8 6.8 6.6	Q5235		5.0 1.0	Q5619	B E	6.8 7.4
	11 14 15	6.8 6.8 6.8	05207	E	0	Q5620	B E	7.4 6.8
	20 21	6.8 6.8	Q5237	B C E	1.7 5.9 1.0	Q5621	B E	6.2 6.8
	22 23 25	6.6 2.4 2.3	Q5238	B E	1.0	Q5622	B E	6.8 6.2
	26 27	0 4.2	Q5403		2.2	Q5623	B E	6.8 6.2
	28 29 30	4.2 3.5 3.3	Q5404	В	2.2	Q5624		7.4 6.8
	31 32	1.7 4.6	Q5405		3.1	Q5625	В	6.2
	33 34 39	1.7 1.7 0		C E	5.9 2.4	Q5626		6.8
	40 41	0	Q5406	B E	2.4 3.1	Q5627	E B	7.7 6.8
	42 47	3.2 5.9	Q5407	C	5.2 3.0	Q5628	E	6.2 7.4
IC5602	1 2 3	0.2 0.2 4.4	Q5409	E B	5.9 3.0		E	6.8
	4 5	4.0 8.5	Q5415	E	2.7	Q5629	E	6.2 6.8
	6 7 8	8.5 0.4 0		E	7.7	Q5632	B C E	5.0 1.0 5.0
	9 10	0	Q5416	Е	7.1 6.5	Q5634	В	1.7
	11 12 13	8.9 0 8.9	Q5418	B E	7.1		E	5.9 1.0
	13	8.9	L	L	L	1	I	1

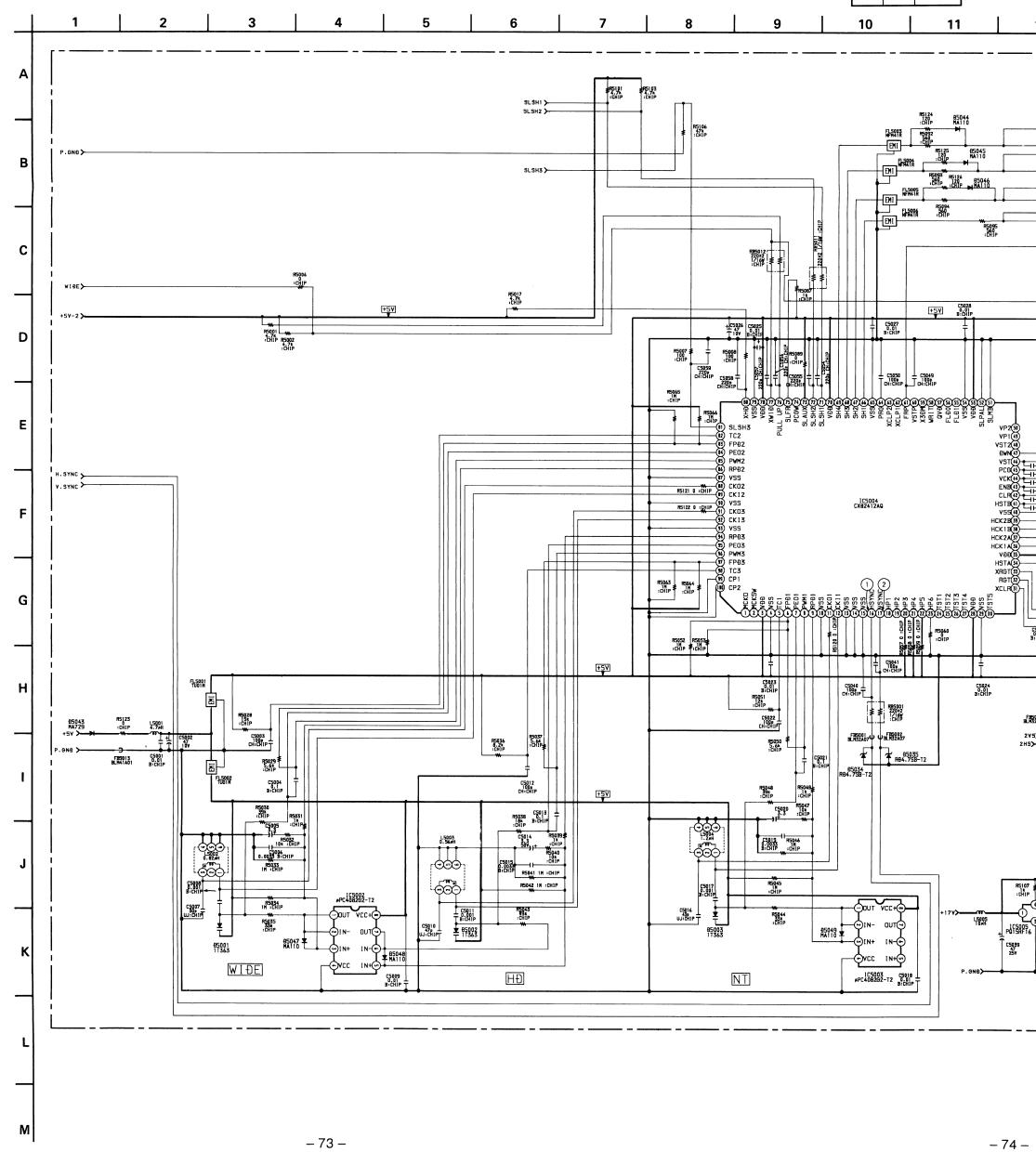


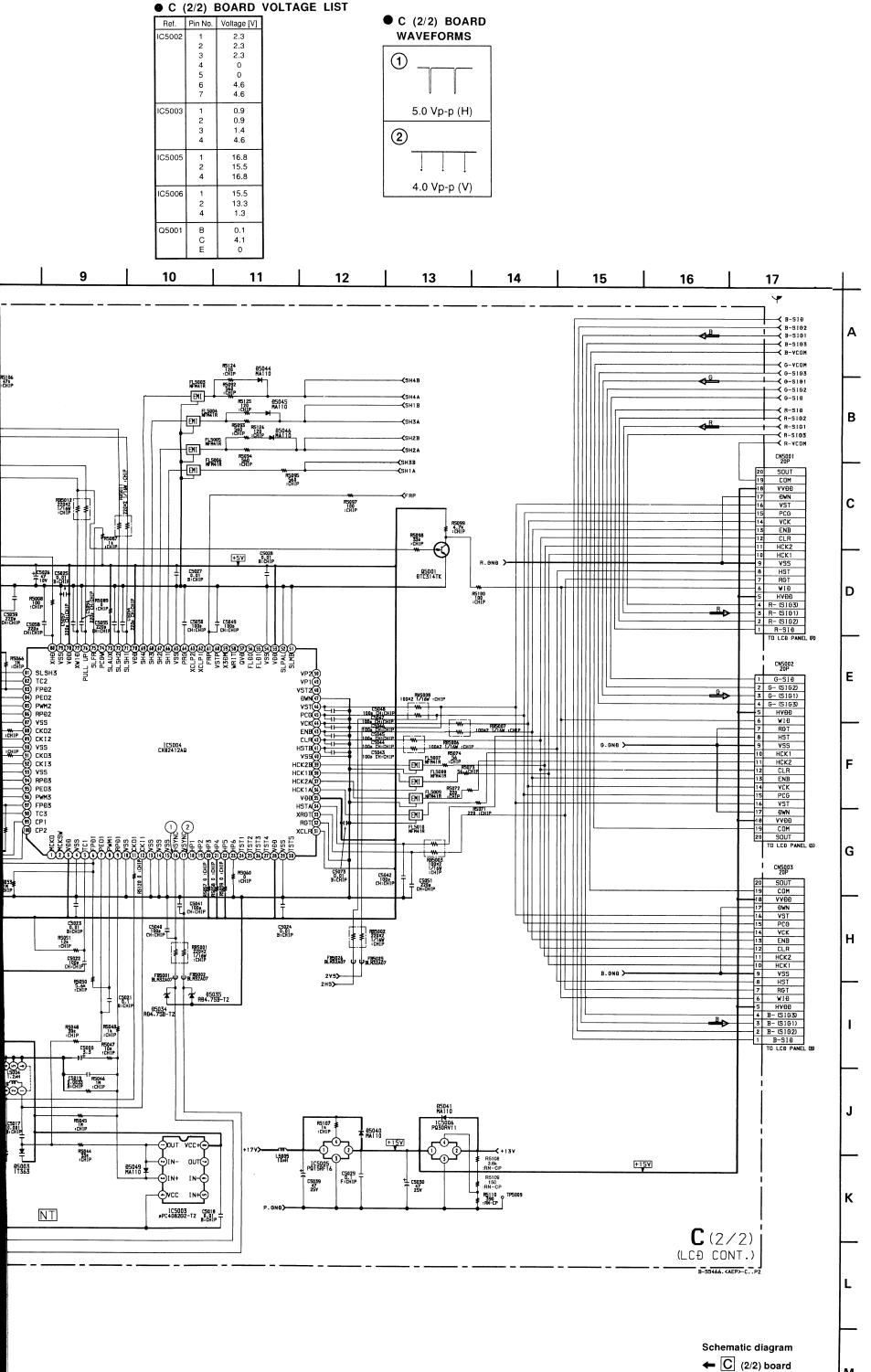




(9) Schematic Diagram of C (2/2) BOARD VOLTAGE LISTED TO SCHEMATIC DIAGRAM (2/2) BOARD VOLTAGE LISTED TO SCHEMATIC DIAGRAM (3/2) BOARD VOLTAGE DIAGRAM (3/2) BOARD VOLTAGE LISTED TO SCHEMATIC DIAGRAM (3/2) BOARD VOLTAGE LISTED TO SCHEMATIC DIAGRAM (3/2) BOARD VOLTAGE LISTED TO SCHEMATIC DIAGRAM (3/2) BOARD VOLTAGE DIAGRAM (3/2) BOARD VOLTAGE

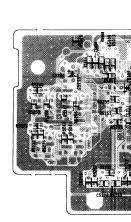
Ref.	Pin No.	Voltage [V]
IC5002	1 2 3 4 5 6 7	2.3 2.3 2.3 0 0 4.6 4.6
IC5003	1 2 3 4	0.9 0.9 1.4 4.6
IC5005	1 2 4	16.8 15.5 16.8
IC5006	1 2 4	15.5 13.3 1.3
Q5001	B C E	0.1 4.1 0



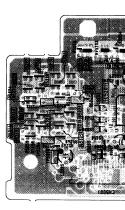


— C Board (Conduc



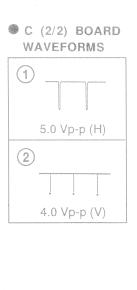


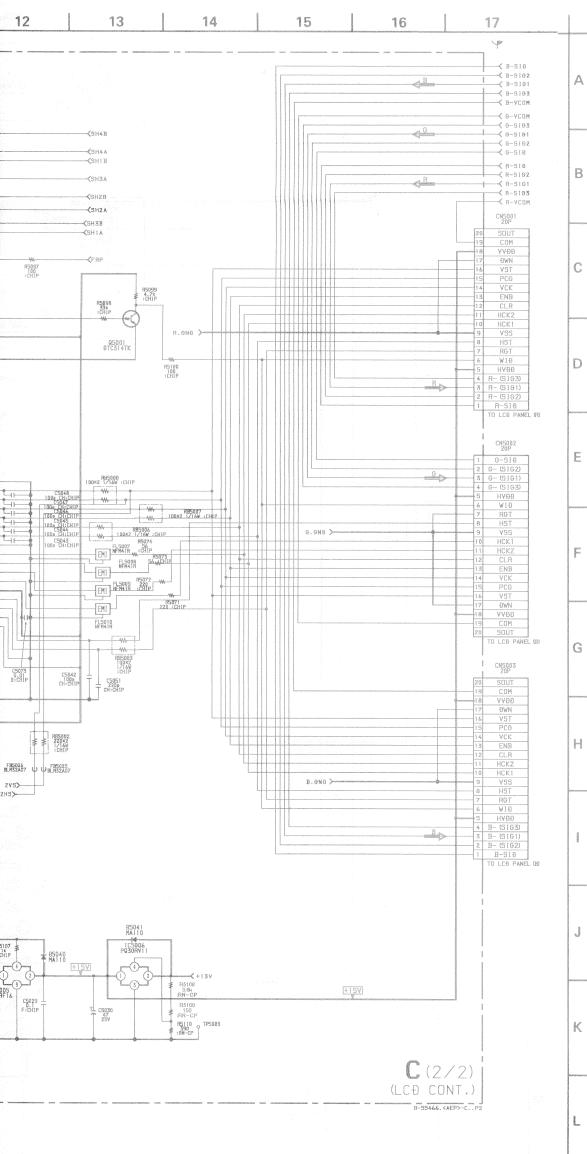
— C Board (Compo

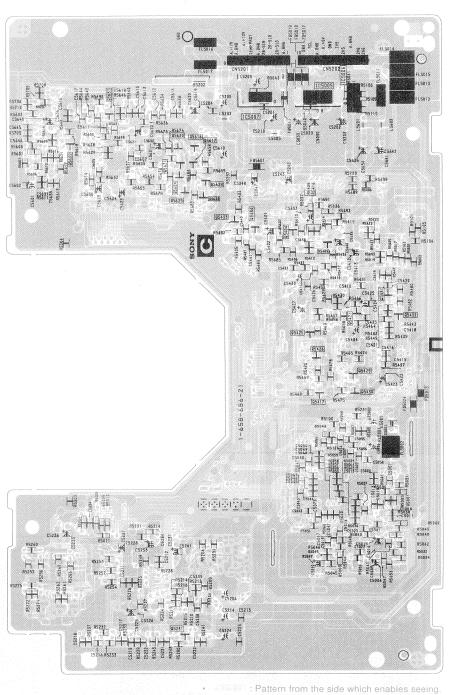




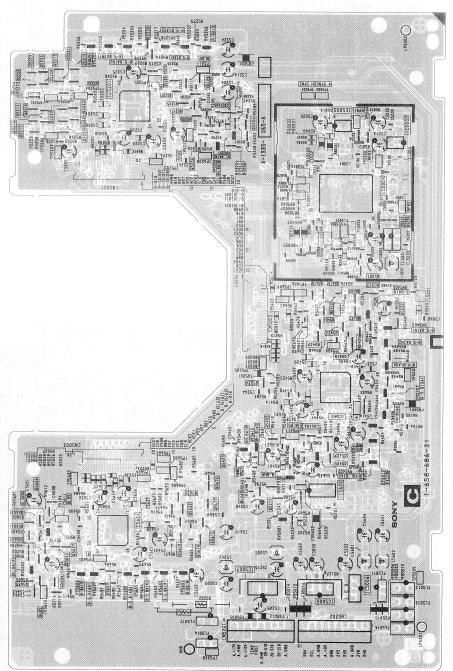
M







— C Board (Component Side) — Pattern of the rear side.



· : Pattern from the side which enables seeing

: Pattern of the rear side.

Schematic diagram

BB (1/3) board ➡

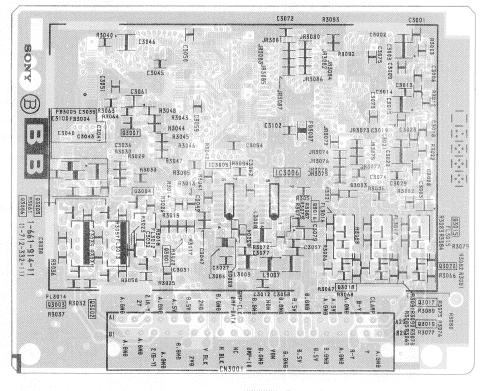
Schematic diagram

← C (2/2) board

M

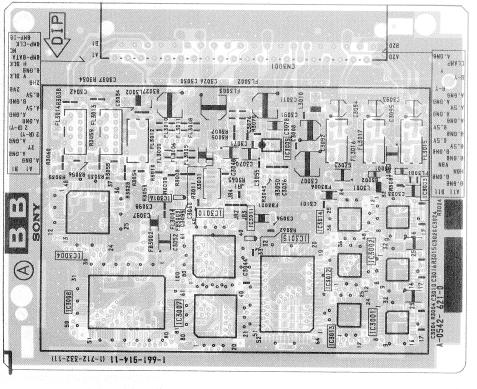
A/D CONV., D/A CONV. "ASPECT RATIO" CONV. MEMORY BLOCK

- BB Board (Conductor Side) -



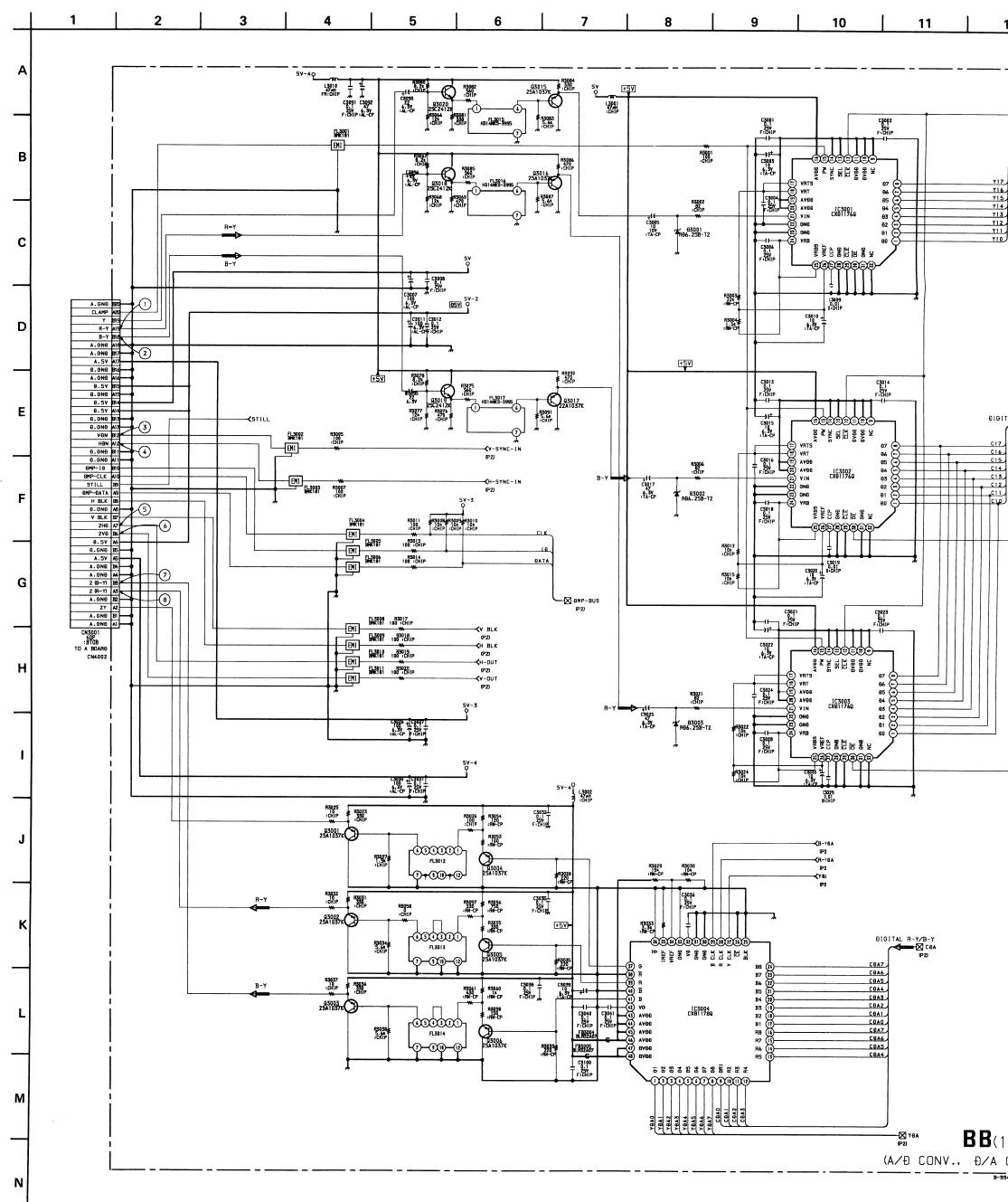
- · Pattern from the side which enables seeing.
- : Pattern of the rear side.

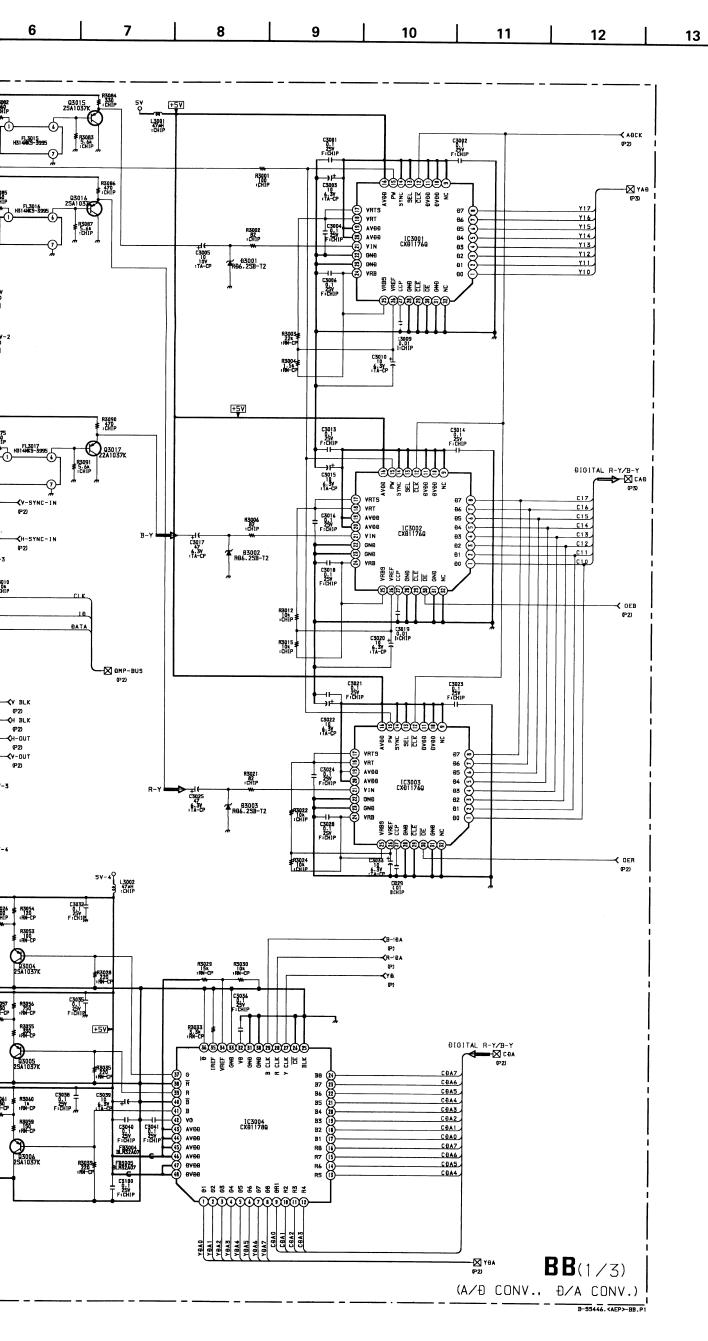
- BB Board (Component Side) -



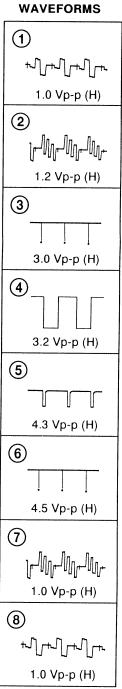
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

3 5 Α HOUSE I T C3091 C3092 0.1 47 259 6.39 F:CHIP:AL-CP Q3020 2SC2412k H3066 R 12k 12k FL3001 BMK181 [MI] В C B-Y D C -<STILL FL3002 BMK181 R3005 100 :CHIP -[EMI] R5007 100 1CHIP FL3004 BMK181 R3011 #R3008 R3009 R3610 100 10x 10x 10x :CHIP :CHIP :CHIP :CHIP R3013 100 :CHIP FL3005 BHK181 -EMI] R3014 100 :CHIP FL3006 BMK181 G A.GNB B2 2Y A2 A.GNB B1 A.GNB A1 FL3008 R3017 BMK181 100 :CHIP CN3001 40P :BTOB TO A BOARD CN4002 R3009 R3018 RMK181 100 :CHIP FL3010 100 10AIP -EMI FL3011 R3020 BMX181 100 CHIP -EMI AL-CP FICHIP R3023 R3026 ≢ R3054 100 ≠ 120 :CHIP :RN-CP 25A1037K R3053 100 1RN-CP r630336 03004 25A1037K FL5012 7 9 11 9 12 # R3031 330 :CHIP 25A1037K R3055 330 :RM-CP K r000000 03005 25A 1037K FL3013 7-910-R3037 10 :CH1P # R5036 350 CHIP # 83060 FRN-CP RS061 430 RN-CP 25A1037K R3059 150 :RN-CP 90 r0000000-03006 25A1037K FL3014 7 9 10 12 M N



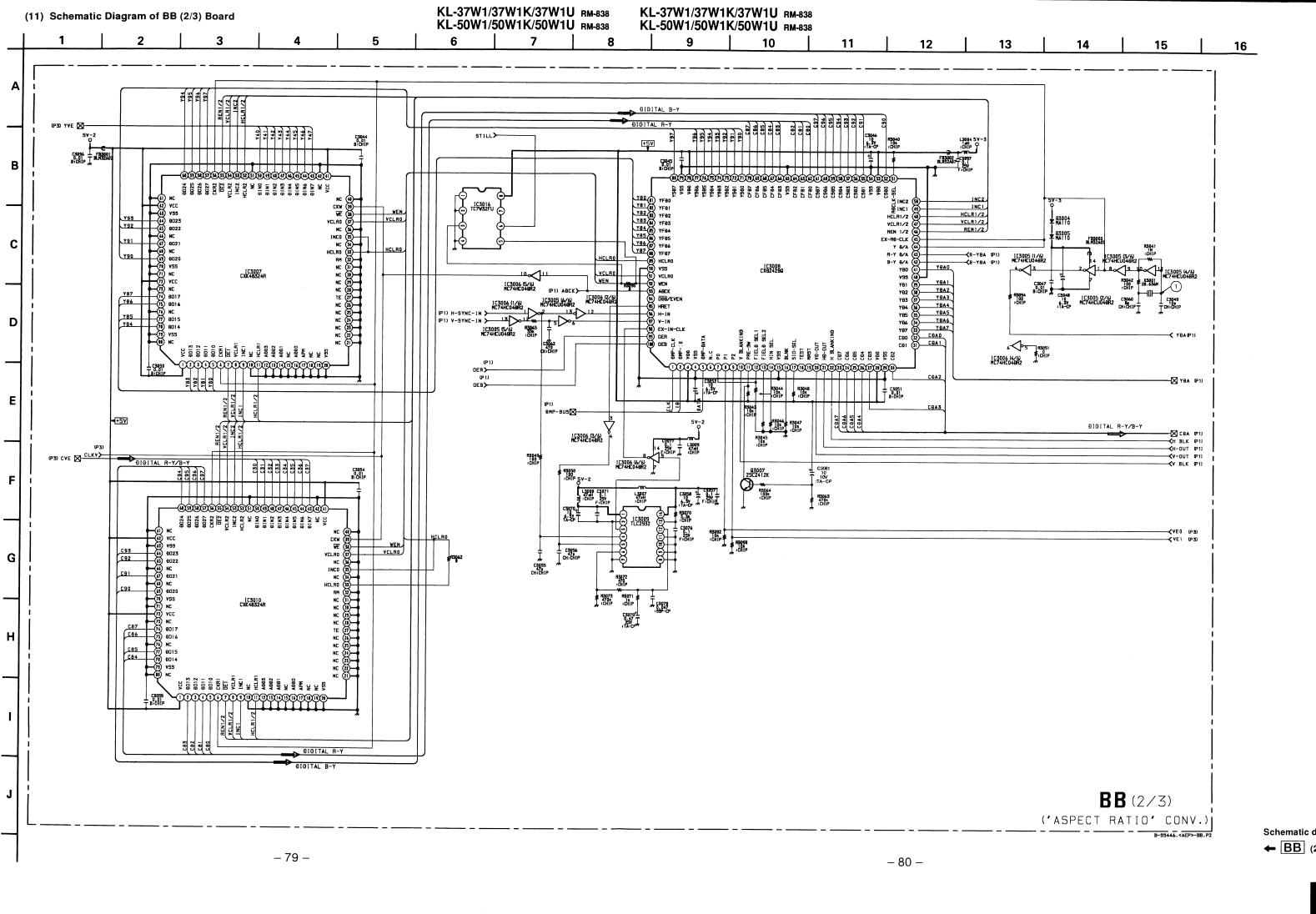


● BB (1/3) BOARD WAVEFORMS



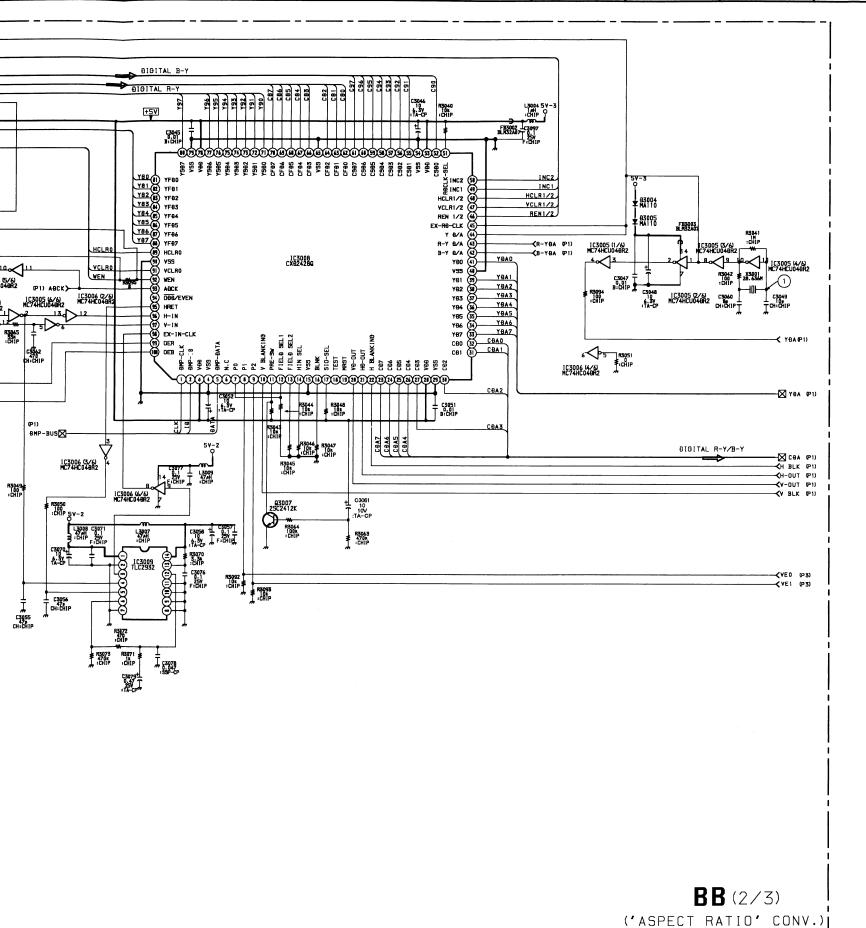
● BB (1/3) BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC3001	1	2.1		2	2.7		21	3.0
Į.	2	2.7		3	3.4		22	3.0
İ	3 4	3.4	ŀ	4	3.1	1	23	2.8
1	4	3.1		5 6	3.2		24	1.8
ľ	5 6	3.2			3.2		27	2.3
	6	3.2	l	7	3.1		28	2.5
1	7	3.1	1	8	1.7	İ	29	2.9
ì	8	1.7	1	12	2.3	l	32	1.1
	12	2.3		15	3.2	ĺ	34	0
1	15	3.2		17	2.5	l	35	2.0
	17	2.5		18	2.5	l	37	0.5
	18	2.5		21	1.5	İ	39	1.0
ł	21	1.5		24	0.5		41	1.0
	24	0.5		25	0.5		42	3.1
	25	0.5		26	0	00001		
	26	0		27	2.5	Q3001	В	2.6
	27	2.5		30	2.6		E	3.2
	30	2.6	IC3004	1	1.8	Q3002	В	1.8
IC3002	1	2.1		2	1.8		Е	2.4
	2	2.7		3	2.0	00000		1.0
	3	3.4		4	1.8	Q3003	B E	1.8 2.5
	4	3.1		5	1.3			2.5
1 1	5	3.2		6	1.6	Q3004	В	0.5
	6	3.2		7	0		Е	1.2
	7	3.1		8	0.7			
1	8	1.7		9	0.5	Q3005	В	1.0
	12	2.3		10	1.7		Е	1.7
1	15	3.2		11	3.2	Q3006	В	1.0
	17	2.5		12	2.9	Q3000	E	1.7
	18	2.5 1.5		13	3.0			1.7
	21 24			14	3.0	Q3015	В	2.0
	25	0.5 0.5	į	15	2.9 1.8	_	E	1.7
1 1	26	0.5		16 17	0.5			
	27	2.5		18	1.7	Q3020	В	2.8
	30	2.6		19	3.2		E	2.2
IC3003	1	2.1		20	2.9			
103003	'	2.1		1			1	

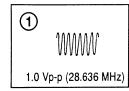


K/37W1U RM-838

K/50W1U RM-838



● BB (2/3) BOARD WAVEFORMS



● BB (2/3) BOARD VOLTAGE LIST

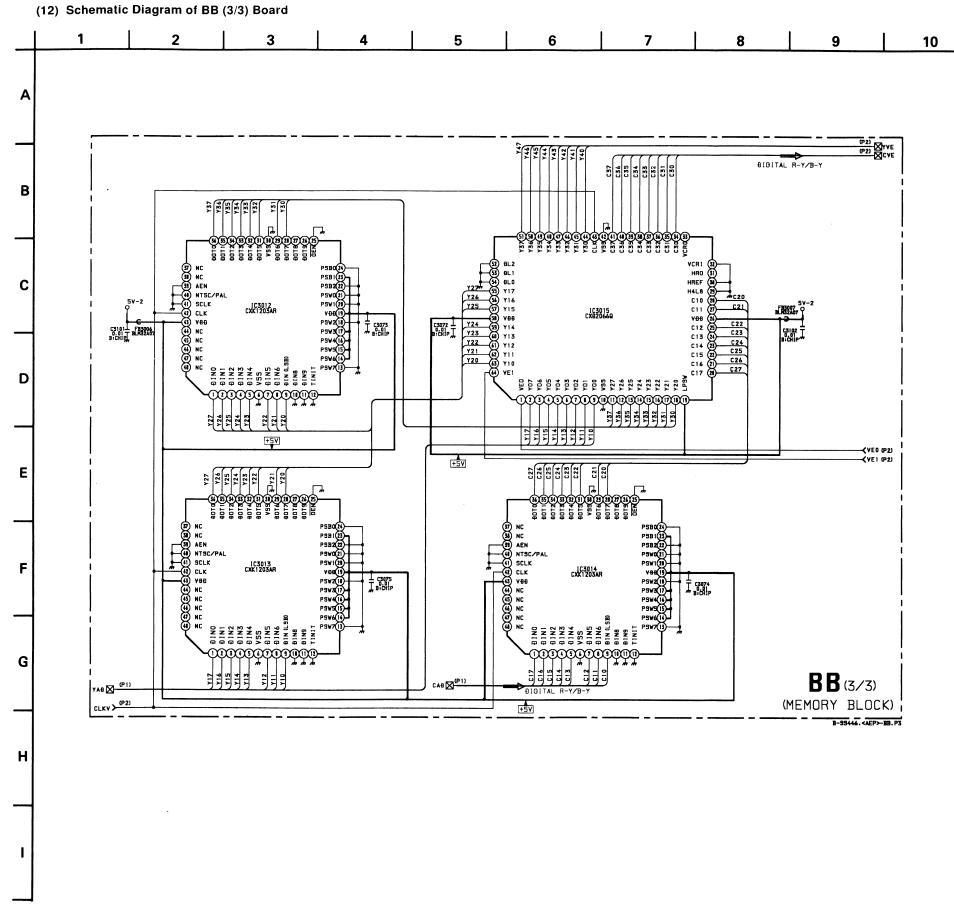
Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC3005	1 2 3 4 5 6 7 8 9 10 11 12 13	2.2 2.4 2.3 0.3 4.8 0 2.2 2.2 2.2 0.3 3.2 4.9		2 5 7 8 9 10 11 12 13 14 16 17 20 21	4.9 0.2 4.8 0 0.7 4.9 0 0 4.3 4.8 4.5		86 87 88 89 91 92 93 95 96 97 98 99 100	0 0.9 0.5 0 0 1.0 2.3 0 2.4 4.8 2.3 2.6 2.6
IC3006	1 2 3 4 5	1.6 2.5 2.5 2.5 0 4.9		22 23 24 25 26 27	0.9 0 2.9 3.1 3.1 3.0	IC3009	3 4 5 6 12 13	2.4 2.5 2.5 2.2 2.2 0
	6 7 8 9 10 11 12 13	4.9 0 2.3 0 2.2 2.5 2.5 4.9		30 31 32 33 34 35 36 37 38	3.2 2.7 0.4 0.7 1.2 1.4 2.6 1.6 2.8	IC3010	2 3 4 5 6 7 8 9	1.9 0 1.7 0.1 2.2 0 0
IC3007	2 3 4 5 6 7 8 9 11 335 37 38 9 44 45 6 47 48 49 50 55 56 67 69 66 67 77 77	1.9 0 1.7 0.1 2.2 0 0 0 0 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0		39 41 42 43 44 45 46 47 48 49 50 51 55 55 57 58 59 61 62 63 64 66 67 71 72 73 74 75 80 81 82 82 83 84 84 84 86 86 86 86 86 86 86 86 86 86 86 86 86	2.0 2.5 2.4 2.2 2.2 0' 0 0 0 4.9 0 0 2.0 1.9 0 0.6 2.1 1.8 1.0 0.6 2.1 1.9 1.8 1.0 1.4 1.7 1.5 1.0 0.6 1.3 1.4		11 12 13 14 16 17 20 33 35 37 38 39 43 44 45 46 47 48 49 52 53 54 55 56 67 67 67 77 77 78	0 0 0 0 0 0 0 0 1.0 0 0 1.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
103000	78 1	1.8		84 85	1.7 1.5 1.3	Q3007	B C	0 4.9
IC3008	1	4.9		0.0	1.5			

Schematic diagram

← BB (2/3) board

Schematic diagram

BB (3/3) board →

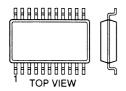


● BB (3/3) BOARD VOLTAGE LIST

IC3012										
IC3012	Ref.	Pin No.	Ref.	Voltage [V]	Voltage [V] Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
3 3.2 3 3.2 23 4 3.2 5 3.1 25 5 3.1 7 3.6 27 8 2.8 8 2.8 28 9 2.9 9 2.9 34 29 3.0 36 37 36 31 3.6 31 3.6 37 36 32 3.2 32 3.2 38 3 33 3.3 34 3.3 34 3.3 39 33 34 3.3 34 3.3 34 3.3 39 33 35 3.1 35 3.1 41 1 41 1 36 1.6 42 2.3 44 2 44 2 1C3013 1 1.7 1C3015 1 0 0 46 2 3 3.2 3 1.5 44 42 2.3 44 1 45 2 4 3.2 4	IC3012	1	C3012	1.7	1.7 IC301	1 1	1.7		21	3.1
5 3.1 5 3.1 25 3 7 3.0 7 3.6 27 3 8 2.8 8 2.8 28 28 9 2.9 9 2.9 34 22 28 2.4 28 2.4 35 22 29 3.0 36 37 33 31 3.6 31 3.6 37 33 32 3.2 32 3.2 38 33 33 3.3 34 3.3 39 33 34 3.3 34 3.3 39 33 35 3.1 35 3.1 41 1 36 1.6 43 3.3 40 33 35 3.1 35 3.1 41 1 42 2.3 42 2.3 44 2 3 3.2 4 4 2 <td>·</td> <td>2</td> <td>· ·</td> <td>3.0</td> <td>3.0</td> <td>2</td> <td></td> <td></td> <td>22</td> <td>3.3</td>	·	2	· ·	3.0	3.0	2			22	3.3
5 3.1 5 3.1 25 3 7 3.0 7 3.6 27 3 8 2.8 8 2.8 28 28 9 2.9 9 2.9 34 22 28 2.4 28 2.4 35 22 29 3.0 36 37 33 31 3.6 31 3.6 37 33 32 3.2 32 3.2 38 33 33 3.3 34 3.3 39 33 34 3.3 34 3.3 39 33 35 3.1 35 3.1 41 1 36 1.6 43 3.3 40 33 35 3.1 35 3.1 41 1 42 2.3 42 2.3 44 2 3 3.2 4 4 2 <td></td> <td>3</td> <td></td> <td>3.2</td> <td>3.2</td> <td>3</td> <td></td> <td></td> <td>23</td> <td>*</td>		3		3.2	3.2	3			23	*
9 2.9 2.9 2.8 2.4 35 22 35 36 37 33 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3		4	l	3.2	3.2				24	3.2
9 2.9 2.9 2.8 2.4 35 22 35 36 37 33 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3		5	i	3.1	3.1	5			25	3.6
9 2.9 2.9 2.8 2.4 35 22 35 36 37 33 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3		7		3.0	3.0		3.6		27	3.0
28 2.4 28 2.4 35 22 29 3.0 36 37 33 31 3.6 31 3.6 37 33 32 3.2 32 3.2 38 39 33 34 3.3 34 3.3 39 33 35 3.1 35 3.1 41 1 36 1.6 43 2 44 2 42 2.3 44 2 44 2 1C3013 1 1.7 1C3015 1 0 46 2 2 3.0 2 0.8 47 2 3 1.5 48 1 4 3.2 4 1.6 49 1 4 49 1 5 3.1 5 1.5 50 1 5 50 1 7 3.6 2.3 51 0 9 2.4		8	- 1	2.8	2.8				28	2.4
29 3.0 29 3.0 36 37 33 32 3.2 38 33 33 33 33 33 34 3.3 34 3.3 35 3.1 36 1.6 42 2.3 44 2 2.3 44 2 2.3 44 2 2.3 45 16 36 1.5 48 47 2 3.0 3 3.2 4 4 3.5 50 1 5 50 1 5 50 1 5 50 1 5 50 1 5 50 1 5 50 50			- 1	2.9	2.9				34	2.5
31			ŀ	2.4	2.4				35	2.9
32 3.2 3.2 3.2 3.2 3.8 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3			I							3.6
33			- 1						37	3.1
34 3.3 34 3.3 34 3.3 35 3.1 40 33 35 3.1 36 1.6 42 2.3 44 42 2.3 45 47 22 3.0 3 3.2 4 4 1.6 49 1 5 5 3.1 5 1.5 50 1 7 3.6 6 2.3 51 7 3.6 8 2.8 7 2.4 9 2.9 8 2.9 8 2.4 9 2.0 56 28 2.4 9 2.0 57 1 3.1 3.6 3.1 3.6 3.2 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3			1							3.3
35			l							3.3
36			ł							3.0
										1.6
IC3013			- 1							2.3
C3013		42		2.3	2.3	42	2.3			2.1
2 3.0 2 0.8 47 2 3 3.2 3 1.5 48 1 4 3.2 4 1.6 49 1 5 3.1 5 1.5 50 1 7 3.6 6 2.3 51 0 8 2.8 7 2.4 55 0 9 2.9 8 2.2 56 28 2.4 9 2.0 57 1 29 3.0 11 0.8 59 31 3.6 12 1.4 60 2 32 3.2 13 1.6 61 2 33 3.3 14 1.5 62 34 3.3 25 2.3 63 2	102013	1	2012	1.7	1.7 IC301	1	0			2.2
3 3.2 3 1.5 48 1 4 3.2 4 1.6 49 1 5 3.1 5 1.5 50 1 7 3.6 6 2.3 51 0 8 2.8 7 2.4 55 0 9 2.9 8 2.2 56 28 2.4 9 2.0 57 1 29 3.0 11 0.8 59 31 3.6 12 1.4 60 2 32 3.2 13 1.6 61 2 33 3.3 14 1.5 62 34 3.3 25 2.3 63 2	103013		55015							2.4
8 2.8 7 2.4 55 0 9 2.9 8 2.2 56 0 28 2.4 9 2.0 57 1 29 3.0 11 0.8 59 31 3.6 12 1.4 60 2 32 3.2 13 1.6 61 2 33 3.3 14 1.5 62 34 3.3 25 2.3 63 2		2	- 1							2.2
8 2.8 7 2.4 55 0 9 2.9 8 2.2 56 0 28 2.4 9 2.0 57 1 29 3.0 11 0.8 59 31 3.6 12 1.4 60 2 32 3.2 13 1.6 61 2 33 3.3 14 1.5 62 34 3.3 25 2.3 63 2		ايرا	j				1.5			1.5
8 2.8 7 2.4 55 0 9 2.9 8 2.2 56 0 28 2.4 9 2.0 57 1 29 3.0 11 0.8 59 31 3.6 12 1.4 60 2 32 3.2 13 1.6 61 2 33 3.3 14 1.5 62 34 3.3 25 2.3 63 2		5	1							1.6
8 2.8 7 2.4 55 0 9 2.9 8 2.2 56 0 28 2.4 9 2.0 57 1 29 3.0 11 0.8 59 31 3.6 12 1.4 60 2 32 3.2 13 1.6 61 2 33 3.3 14 1.5 62 34 3.3 25 2.3 63 2		7								1.4
9 2.9 8 2.2 56 56 2.2 9 3.0 11 0.8 59 31 3.6 12 1.4 60 2 33 3.3 14 1.5 62 34 3.3 25 2.5 2.3 63 2										0.8
28 2.4 9 2.0 57 1 29 3.0 11 0.8 59 31 3.6 12 1.4 60 2 32 3.2 13 1.6 61 2 33 3.3 14 1.5 62 34 3.3 25 2.3 63 2	1	ا و ا	1							0.8
29 3.0 11 0.8 59 31 3.6 12 1.4 60 32 3.2 13 1.6 61 33 3.3 14 1.5 62 34 3.3 25 2.3 63 2	- 1		- 1							0
31 3.6 12 1.4 60 2 32 3.2 13 1.6 61 2 33 3.3 14 1.5 62 34 3.3 25 2.3 63 2			- 1							1.6 *
32 3.2 13 1.6 61 2 33 3.3 14 1.5 62 62 34 3.3 25 2.3 63 2	l									
33 3.3 14 1.5 62 62 34 63 2	1		1							2.3
34 3.3 25 2.3 63 2	1		- 1							2.5 *
	ļ	35	ļ	3.1		16	2.4		64	2.1 0
36 1.6 17 2.3			1					1	04	۷
42 2.3 20 1.6			İ							

4-5. SEMICONDUCTORS

BA4558F BA7046F **CXA1315M** CXA1875AM-T4 CXD1176Q CXD1176Q-T4 CXK1203AR LM2901M MB3793-42PNF MC14046BF MC14046BF-T2 MC74F02M-T2 MC74HCU04DR2 MC74HC04ADR2 MC74HC4053DNR2 **NJM2233BM** NJM2284M NJM2901M-T2 TC7W32FU TC7W74FU TLC2932IPW μPC358GR-E1 иPC4082G2



CXA1815S

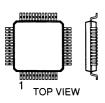


(Top view)

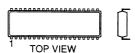
CXA1819Q CXD1178Q CXD1178Q-T6 CXD2309Q-T6



CXA1839Q-T6 CXA1860Q-T4 CXA2011Q CXD2030R CXD2031R-65846GJ015 CXD2031R-65846GJ0153EN CXD2300Q-T4 CXK48324R CXK48324R-1 TDA6812-2MGEG



CXA1840S CXA1855S SDA9086-5 ST24C16CB1 ST24C16FB6 TDA7317 TDA8443B TDA9820 TEA2114



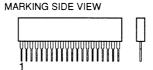
CXD2412AQ CXD2032Q-TL CXD2428Q



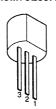
CXD2066Q SAA7283GP



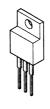
MB81C4256A-70PSZG



MC78L05ACPRP NJM78L05A



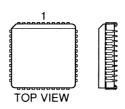
MC7809CT NJM78M05FA NJM78M09FA



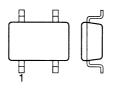
PQ05RF21 PQ09RA1 PQ09RF11 PQ15RF16 PQ30RV11



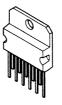
SDA30C164-GEG SDA5273P-C26-GEG



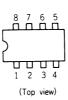
TC4S66F



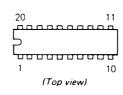
TDA2009A



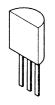
TDA2822M TOP210PF1



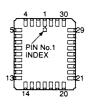
TDA8395T/N3



TL431CLP TL431CLP-Z20



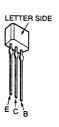
TMS27PC020-15FMLLE101



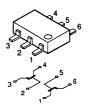
DTA114EKA-T146 DTA124EKA-T146 DTC114EK DTC114EKA-T146 DTC124EKA-T146 DTC144EKA-T146 DTC314TKH04 DTC314TK-T-146 2SA1037K-T-146-R 2SA162-G 2SC-1623-L5L6 2SC2412K-QR 2SC2412K-T-146-QR



DTC114ESA-TP JC501-Q-AMMO JC501TP-Q 2SA933AS-QRT 2SA933AS-RT 2SC2785-HFE



XN4401 XN4401-TX



XN4601 XN4601-TX

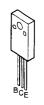


3 2 1 5 6

2SA1282ATP-EF



2SC4833-M1



2SD2396H



DAN202K DAN202K-T-146 MA152WK-TX STZ6.8T 1SS184



DAP202K DAP202K-T-146



DA204K DA204K-T-146



D1NL20-TR EGP10D EGP10DPKG23 S2LA20F 1SS133T-77



D2SBA60F



D4SB60L-F D10SBS4 D10SBS4F RBA-406B



EL1Z MTZJ-T-77-9.1A RGP10GPKG23



HVU359TRF MA111 MA111-TX RD4.7SB RD4.7SB-T2 RD6.2SB RD6.2SB-T2 1SV214 1SV214-TPH3 1T363 1T363-04-T8A



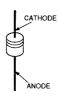
MA3030-H (TX)



MA729 MA729-TX



MTZJ-T-77-13B MTZJ-T-77-15B MTZJ-T-77-33C MTZJ-13B MTZJ-33C RD15ES-B2 RD30ESB3 RD5.6ESB2 1SS119-25 1SS119-25TD



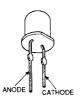
UF4005PKG23



SPR-54MVW



TLR124

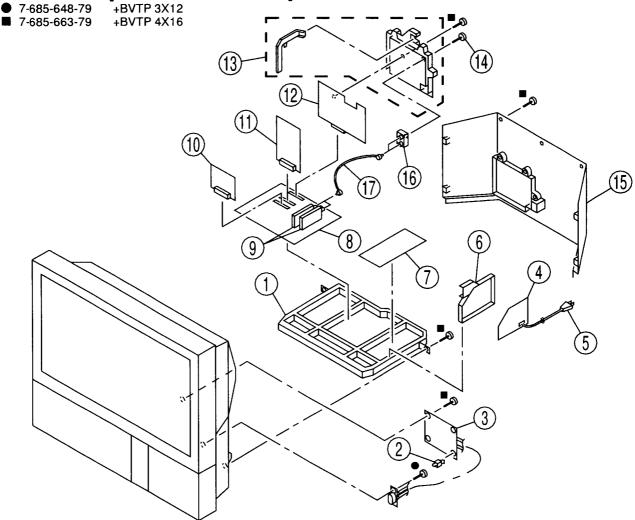


SECTION 5 EXPLODED VIEWS

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

5-1. CHASSIS [KL-37W1/37W1K/37W1U]



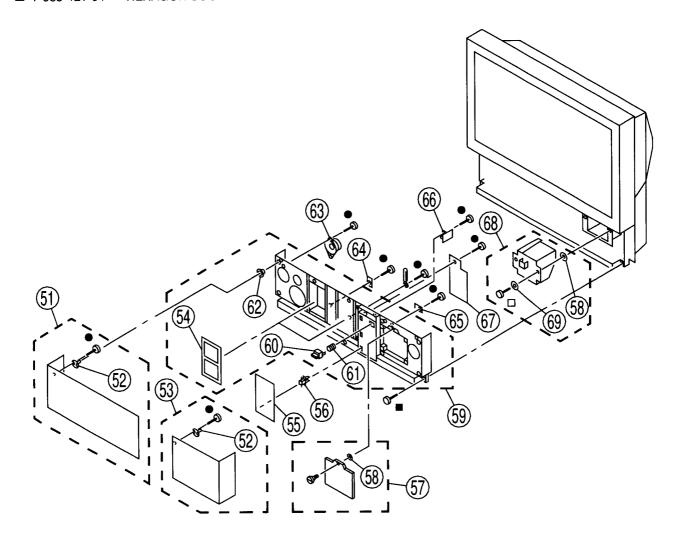
REF.NO	. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	* 4-054-721-01	BRACKET, MAIN		10	* A-1135-870-/	A BB BOARD, COMPLETE	
2		HOLDER, PCB		11	* A-1135-884-A	A B1 BOARD, COMPLETE	
V-14-4-77 - V-14-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4		POWER BLOCK		12	* A-1388-189-A	A J BOARD, ĆOMPLETE	
	AND THE PROPERTY OF THE PROPER	A F2 BOARD, COMPLET	E	13	4-054-727-01	I TERMINAL BOARD	
		CORD, POWER 10A/2		14		SCREW (M3X8), +B	
			Contrate and agency of the same and the sales	15	X-4033-267-2	2 COVER ASSY, REAR	
5 .	≬ 1-776-860-11	POWER CORD, FILTE	R (KL-37W1LI)	16		BOOSTER, PF	
6		BRACKET, F2				CABLE, P-P	
7		A G BOARD, COMPLETE		,,,			
Ŕ		A A BOARD, COMPLETE					
ana at Water and a second	A 1-693-340-21						

5-2. FRONT COVER [KL-37W1/37W1K/37W1U]

● 7-685-648-79 +BVTP 3X12

■ 7-685-663-79 +BVTP 4X16

☐ 7-683-421-04 HEXAGON SOCKET BOLT 4 X 12



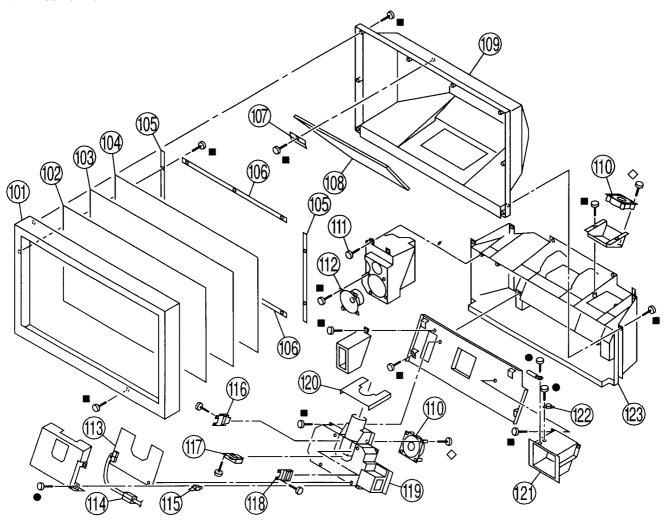
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
 51	X-4033-823-1	PANEL (L) ASSY, FRONT	52	60	4-051-285-01	BUTTON, POWER	
52	4-054-709-01			61	4-202-964-01	SPRING	
53		PANEL (R) ASSY, FRONT	52	62	* 4-838-438-00	LATCH	
54	4-051-312-01	FILTER		63	1-505-207-11	SPEAKER (5.7CM)	
55		DOOR ASSY (KL-37W1/W1U)		64	* A-1390-622- <i>F</i>	A TB BOARD, COMPLETE	
55	X-4033-819-2	DOOR ASSY (KL-37W1K)		65	* A-1390-621 <i>-A</i>	A TA BOARD, COMPLETE	
56	3-703-035-11			66	* A-1241-256-A	A F1 BOARD, COMPLETE	
57		DOOR ASSY, LAMP	58	67	* A-1372-259-A	A H BOARD, COMPLETE	
	*3-650-537-00			68	A-1501-092-A	A LAMP BLOCK ASSY	58, 59
59		COVER ASSY, FRONT	54, 60-62	69	3-901-261-01	WASHER	

5-3. SCREEN MIRROR BLOCK AND OPTICS UNIT [KL-37W1/37W1K/37W1U]

- 7-685-648-79 +BVTP 3X12
- 7-685-663-79 +BVTP 4X16

♦ 7-685-167-19 WASHER HEAD SCREW +P 4 X 35

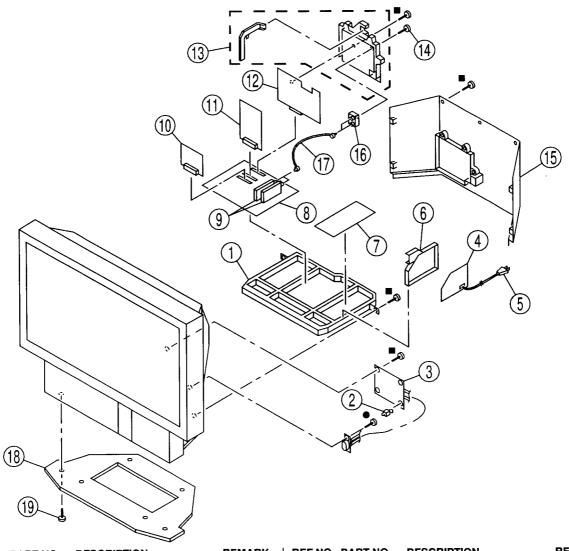
The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.



REF.NO	. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101 102 103 104 105	4-054-232-11 4-051-303-11 4-051-297-11	FRAME ASSY, SCREEN SCREEN, CONTRAST PLATE (L), DUFFUSION PLATE (F), DUFFUSION HOLDER, SCREEN (S1)		114 115	1-543-653-11 *3-703-141-00	A C BOARD, COMPLETE CORE ASSY, BEAD(DIVISION HOLDER, PCB	TYPE)
106 107 108 109 110	*4-051-296-01 4-051-283-01	2 COVER ASSY, MIRROR		120	A-1501-091-/ A-1501-089-/ 1-473-544-13 4-051-825-11	A PANEL BLOCK ASSY (B) A PANEL BLOCK ASSY (G) A PANEL BLOCK ASSY (R) OPTICAL UNIT SHIELD, OPTICAL BASE, LAMP	
111 112		SCREW (4X16), TAPPING, +I SPEAKER (10CM)	P	122 🛭	1-533-746-11	THERMOSTAT CABINET ASSY, BOTTOM	

5-4. CHASSIS [KL-50W1/50W1K/50W1U] ● 7-685-648-79 +BVTP 3X12 ■ 7-685-663-79 +BVTP 4X16

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

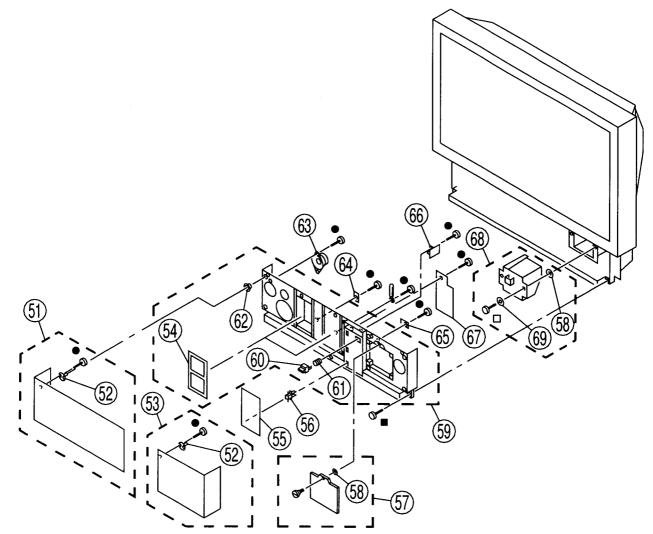


REF.N	IO. PART NO.	DESCRIPTION	REMARK	REF.NO	PART NO.	DESCRIPTION	REMARK
1	* 4-054-721-01	BRACKET, MAIN		10	* A-1135-870-	A BB BOARD, COMPLETE	
,		HOLDER, PCB		11	* A-1135-884-7	A B1 BOARD, COMPLETE	
้อ		POWER BLOCK		12	* A-1388-189-	A J BOARD, COMPLETE	
4		A F2 BOARD, COMPLETE		13	4-054-727-01	1 TERMINAL BOARD	
5		CORD, POWER 10A/250V	50W1/50W1K)	14	4-379-611-01	1 SCREW (M3X8), +B	
200000000000000000000000000000000000000		· · · · · · · · · · · · · · · · · · ·		15	X-4033-267-2	2 COVER ASSY, REAR	
5	A 1-776-860-11	POWER CORD, FILTER (UP	()	16	1-251-459-11	1 BOOSTER, RÉ	
	ω		(KL-50W1U)	17	* 1-777-539-11	1 CABLE, PIŃ	
6	* 4-054-722-01	BRACKET, F2	and the section of th	18	4-055-250-01	1 PEDESTAL	
7		A G BOARD, COMPLETE		19	4-378-522-0	1 SCREW, TAPPING, HEXAG	ON HEAD
. 8	* A-1297-924-	A A BOARD, COMPLETE				,	
9	△ 1-693-340-2						

5-5. FRONT COVER [KL-50W1/50W1K/50W1U]

● 7-685-648-79 +BVTP 3X12 ■ 7-685-663-79 +BVTP 4X16

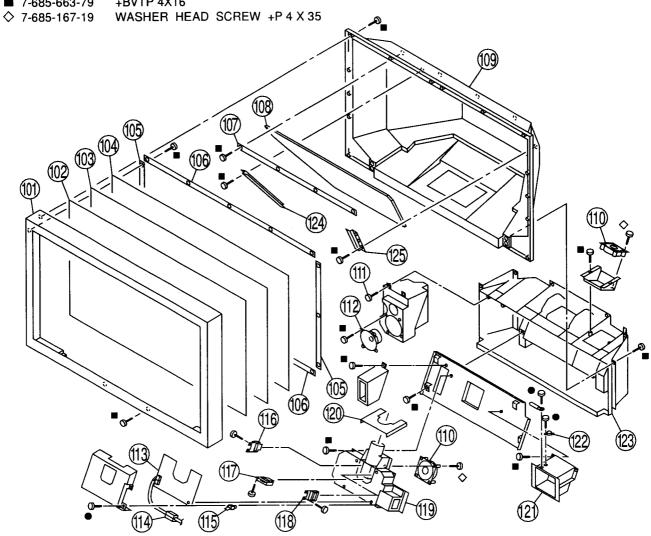
☐ 7-683-421-04 HEXAGON SOCKET BOLT 4 X 12



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4033-823-1	PANEL (L) ASSY, FRONT	52	60	4-051-285-01	BUTTON, POWER	
52	4-054-709-01			61	4-202-964-01	· · - · · • · - · · ·	
53	X-4033-821-1	PANEL (R) ASSY, FRONT	52	62	* 4-838-438-00	LATCH	
54	4-051-312-01			63		SPEAKER (5,7CM)	
55	X-4033-819-1	DOOR ASSY (KL-50W1/50W1	U)	64		TB BOARD, COMPLETE	
55	X-4033-819-2	DOOR ASSY (KL-50W1K)		65	* A-1390-621-A	TA BOARD, COMPLETE	
56	3-703-035-11	SHAFT, LID `				F1 BOARD, COMPLETE	
57	X-4033-818-2	DOOR ASSY, LAMP	58			H BOARD, COMPLETE	
58	*3-650-537-00	WASHER		68		LAMP BLOCK ASSY	58, 69
59	X-4033-825-1	COVER ASSY, FRONT	54, 60-62	69	3-901-261-01	WASHER	•

5-6. SCREEN MIRROR BLOCK AND OPTICS UNIT [KL-50W1/50W1K/50W1U]

● 7-685-648-79 +BVTP 3X12 ■ 7-685-663-79 +BVTP 4X16



REF.NO	. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	X-4033-874-1	1 FRAME ASSY, SCREEN		114	1-543-653-11	CORE ASSY, BEAD(DIVISION	I TYPE)
102		SCREEN, CONTRAST				HOLDER, PCB	,
103		PLATE (L), DUFFUSION	İ			,	
104		PLATE (F), DUFFUSION		116	A-1501-090-A	A PANEL BLOCK ASSY (B)	
105		HOLDER (S), SCREEN		117	A-1501-091-A	A PANEL BLOCK ASSY (G)	
		. ,,		118	A-1501-089-A	A PANEL BLOCK ASSY (R)	
106	* 4-055-161-01	HOLDER (50), SCREEN		119 🛭	1-473-544-13	OPTICAL UNIT	
107	* 4-037-351-01	HOLDER, MIRROR		120	* 4-051-825-11	SHIELD, OPTICAL	
108	4-055-162-01	MIRROR (50)					
109	X-4033-875-	1 COVER ASSY, MIRROR	ľ	121	* 4-051-343-01	BASE, LAMP	
110	1-698-696-11	I FAN, DC	l	122 🛭	<u> </u>	THERMOSTAT	
				123	* X-4033-826-1	CABINET ASSY, BOTTOM	
111	4-384-096-01	I SCREW (4X16), TAPPING, +	.Р.	124	* 4-055-163-01	HOLDER (L), MIRROR	
112	1-505-208-11	I SPEAKER (10ČM)		125	* 4-055-164-01	HOLDER (R), MIRROR	
113	* A-1335-079-7	A C BOARD, COMPLETE					



SECTION 6 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark $\, \underline{ \Lambda} \,$ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

• All variable and adjustable resistors have RESISTORS characteristic curve B, unless otherwise • All resistors are in ohms

- F : nonflammable
- · Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

REF.NO.	. PART NO.	DESCRIPTION	R	EMARK	REF.NO	. PART NO.	DESCRIPTION	<u> </u>	R	EMARK
*	A-1135-870-A	BB BOARD, COMPLETE			C3040	1-163-038-00	CERAMIC CHIP	0.1MF		25V
		*******			1		CERAMIC CHIP			25V
							CERAMIC CHIP		10%	
					00044	1 104 202 11	OLI VIVIIO OI III	0.011011	10 /6	30 v
	0.50.00	<u> </u>			1		CERAMIC CHIP		10%	
	<capacito< td=""><td>H></td><td></td><td></td><td>C3046</td><td>1-135-157-21</td><td>TANTAL. CHIP</td><td>10MF</td><td>20%</td><td>6.3V</td></capacito<>	H>			C3046	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
				05) (1		CERAMIC CHIP		10%	50V
		CERAMIC CHIP 0.1MF		25V	1		TANTAL. CHIP		20%	
		CERAMIC CHIP 0.1MF	000/	25V	C3049	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V
		TANTAL CHIP 10MF	20%	6.3V						
		CERAMIC CHIP 0.1MF	000/	25V	1		CERAMIC CHIP		10%	
C3005	1-104-851-11	TANTAL. CHIP 10MF	20%	10V	1		CERAMIC CHIP		10%	
00000		0554440 0145 0 445		05)/			TANTAL. CHIP		20%	
		CERAMIC CHIP 0.1MF	000/	25V			CERAMIC CHIP		10%	50V
	1-126-206-11		20%	6.3V	C3055	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
		CERAMIC CHIP 0.1MF	1001	25V						
		CERAMIC CHIP 0.01MF		50V			CERAMIC CHIP		5%	50V
C3010	1-135-15/-21	TANTAL. CHIP 10MF	20%	6.3V	C3057	1-163-038-00	CERAMIC CHIP	0.1MF		25V
		5,505	000/				TANTAL. CHIP		20%	6.3V
	1-126-206-11		20%	6.3V	1		CERAMIC CHIP		10%	50V
		CERAMIC CHIP 0.1MF		25V	C3060	1-163-091-00	CERAMIC CHIP	8pF	0.25pF	50V
		CERAMIC CHIP 0.1MF		25V						
		CERAMIC CHIP 0.1MF		25V	C3061	1-104-851-11	TANTAL. CHIP	10MF	20%	10V
C3015	1-135-157-21	TANTAL, CHIP 10MF	20%	6.3V	C3062	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
					C3070	1-135-157-21	TANTAL. CHIP	10MF	20%	6.3V
		CERAMIC CHIP 0.1MF		25V	C3071	1-163-038-00	CERAMIC CHIP	0.1MF		25V
		TANTAL, CHIP 47MF	20%	6.3V	C3072	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
		CERAMIC CHIP 0.1MF		25V						
		CERAMIC CHIP 0.01MF		50V	C3073	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C3020	1-135-157-21	TANTAL, CHIP 10MF	20%	6.3V			CERAMIC CHIP		10%	
0000				0.51.4	C3075	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
		CERAMIC CHIP 0.1MF		25V	C3076	1-163-038-00	CERAMIC CHIP	0.1MF		25V
		TANTAL, CHIP 10MF	20%	6.3V	C3077	1-163-038-00	CERAMIC CHIP	0.1MF		25V
_		CERAMIC CHIP 0.1MF		25V						
		CERAMIC CHIP 0.1MF		25V	C3078	1-104-559-11	FILM CHIP	0.047MF	5%	16V
C3025	1-110-569-11	TANTAL. CHIP 47MF	20%	6.3V	1		TANTAL. CHIP		20%	
000					1		CERAMIC CHIP	0.1MF		25V
	1-126-206-11		20%	6.3V	C3092	1-126-205-11	ELECT	47MF	20%	6.3V
		CERAMIC CHIP 0.1MF		25V	C3093	1-124-778-00	ELECT	22MF	20%	6.3V
_		CERAMIC CHIP 0.1MF		25V						
		CERAMIC CHIP 0.01MF		50V	C3094	1-124-778-00	ELECT	22MF	20%	6.3V
C3030	1-126-206-11	ELECT 100MF	20%	6.3V	C3095	1-124-778-00	ELECT	22MF	20%	6.3V
					C3096	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
		CERAMIC CHIP 0.1MF		25V	C3097	1-163-038-00	CERAMIC CHIP	0.1MF		25V
		CERAMIC CHIP 0.1MF		25V	C3100	1-163-038-00	CERAMIC CHIP	0.1MF		25V
		TANTAL, CHIP 10MF	20%	6.3V						
		CERAMIC CHIP 0.1MF		25V	1		CERAMIC CHIP		10%	
C3036	1-163-038-00	CERAMIC CHIP 0.1MF		25V	C3102	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C3038	1-163-038-00	CERAMIC CHIP 0.1MF		25V						
		TANTAL CHIP 10MF	20%	6.3V	}					
-5009	. 100 101 21		_0 /0	3.0 •	I .					



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO	. PART NO.	DESCRIPTION	ł	R	EMARK
	<connecto< td=""><td>DR></td><td></td><td>IC3015</td><td>8-752-379-90</td><td>IC CXD2066Q</td><td></td><td></td><td></td></connecto<>	DR>		IC3015	8-752-379-90	IC CXD2066Q			
CN3001	1-695-301-11	CONNECTOR, BOARD TO BO	OARD 40P	IC3016	8-759-082-59	IC TC7W32FU			
	<diode></diode>				<chip cond<="" td=""><td>UCTOR></td><td></td><td></td><td></td></chip>	UCTOR>			
D3002 D3003	8-719-158-19 8-719-158-19	DIODE RD6.2SB DIODE RD6.2SB DIODE RD6.2SB DIODE MA111		JR2 JR4		CONDUCTOR, (CONDUCTOR, (
		DIODE MA111			<coil></coil>				
FB3002 FB3003	1-543-813-21 1-543-813-21	FILTER, EMI FILTER, EMI FILTER, EMI		L3002 L3004 L3007	1-412-031-11 1-410-192-51 1-412-031-11	INDUCTOR CHI INDUCTOR CHI INDUCTOR CHI INDUCTOR CHI INDUCTOR CHI	IP IP IP	47UH 47UH 1UH 47UH 47UH	l I
	1-543-813-21 1-543-813-21	FILTER, EMI FILTER, EMI				INDUCTOR CHI		47UH 47UH	
	1-543-813-21 1-543-813-21	·			<transistc< td=""><td>PR></td><td></td><td></td><td></td></transistc<>	PR>			
	<filter></filter>			Q3002	8-729-216-22	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1162-G		
FL3002	1-233-512-21	FILTER, EMI FILTER, EMI FILTER, EMI				TRANSISTOR 2 TRANSISTOR 2			
	1-233-512-21 1-233-512-21	FILTER, EMI FILTER, EMI		Q3007	8-729-920-74	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC2412K-C	QR	
FL3008	1-233-512-21 1-233-512-21 1-233-512-21	•				TRANSISTOR 25			
FL3011	1-233-512-21	FILTER, EMI FILTER, EMI		Q3019	8-729-920-74	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC2412K-C	ΩR	
FL3013 FL3014	1-236-620-11 1-236-620-11	FILTER, LOW PASS FILTER, LOW PASS FILTER, LOW PASS			<resistor></resistor>				
		FILTER, LOW PASS FILTER, LOW PASS				METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
FL3017	1-233-435-11	FILTER, LOW PASS		R3004	1-208-814-11 1-216-655-11		22K 1.5K		61/10W 61/10W 1/10W
	<ic></ic>			110000	1-210-025-00	WILLIAL GLAZE	100	376	1/1044
				R3006	1-216-023-00	METAL GLAZE	82	5%	1/10W
IC3001	8-752-337-04	IC CXD1176Q				METAL GLAZE		5%	1/10W
		IC CXD1176Q		R3008	1-216-073-00	METAL GLAZE	10K	5%	1/10W
		IC CXD1176Q				METAL GLAZE		5%	1/10W
		IC CXD1178Q IC MC74HCU04DR2				METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
IC3006	8-759-398-17	IC MC74HC04ADR2		_		METAL GLAZE		5%	1/10W
		IC CXK48324R-1				METAL GLAZE		5%	1/10W
		IC CXD2428Q	1			METAL GLAZE		5%	1/10W
		IC TLC2932IPW	Ì			METAL GLAZE		5%	1/10W
IC3010	8-752-365-06	IC CXK48324R-1	ļ			_			
						METAL GLAZE		5%	1/10W
		IC TC7W74FU				METAL GLAZE		5%	1/10W
		IC CXK1203AR				METAL GLAZE		5%	1/10W
		IC CXK1203AR				METAL GLAZE		5%	1/10W
IC3014	8-752-360-44	IC CXK1203AR	ļ	H3021	1-216-023-00	METAL GLAZE	82	5%	1/10W



REF.NO.	PART NO.	DESCRIPTION	<u> </u>	RE	MARK	REF.NO.	PART NO.	DESCRIPTION	l	R	EMARK
B3022	1-216-073-00	METAL GLAZE	10K	5%	1/10W	B3082	1-216-043-91	METAL GLAZE	560	5%	1/10W
		METAL GLAZE			1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W			METAL GLAZE		5%	1/10W
								METAL GLAZE			
		METAL GLAZE			1/10W	H3000	1-216-043-91	METAL GLAZE	560	5%	1/10W
H3026	1-216-025-00	METAL GLAZE	100	5%	1/10W	R3086	1-216-041-00	METAL GLAZE	470	5%	1/10W
R3027	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W			METAL GLAZE		5%	1/10W
		METAL CHIP			1/10W			METAL GLAZE		5%	1/10W
		METAL CHIP			1/10W			METAL GLAZE		5%	1/10W
		METAL CHIP	10K		1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W	110032	1 210 070 00	WILLIAL GLAZE	1010	3 /8	17 10 11
				3 76	1,1011	R3093	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3032	1-216-001-00	METAL GLAZE	10	5%	1/10W	R3094	1-216-025-00	METAL GLAZE	100	5%	1/10W
R3033	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W						
R3034	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W						
		METAL CHIP	220		1/10W		<crystal></crystal>				
		METAL GLAZE			1/10W			i i			
710000	1210 007 00			070	.,	X3001	1-579-619-23	VIBRATOR, CR	YSTAL		
R3037	1-216-001-00	METAL GLAZE	10	5%	1/10W						
R3038	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W						
R3039	1-216-635-11	METAL CHIP	220	0.50%	1/10W						
		METAL GLAZE			1/10W	******	******	*****	******	*****	*****
		METAL GLAZE			1/10W						
7.0011	. 200 0 10 7 .					*	A-1135-884-A	B1 BOARD, CO	MPLETE		
R3042	1-216-025-00	METAL GLAZE	100	5%	1/10W			******	*****		
R3043	1-216-073-00	METAL GLAZE	10K	5%	1/10W						
		METAL GLAZE		5%	1/10W	*	4-380-698-01	CASE (MAIN), S	HIELD. A1		
		METAL GLAZE			1/10W			· · · · · · · · · · · · · · · · · · ·	,		
		METAL GLAZE			1/10W						
. 100 70	, _ , , , , , , , , , , , , , , , , , ,			-,-	.,		<capacitor< td=""><td>₹></td><td></td><td></td><td></td></capacitor<>	₹>			
R3047	1-216-073-00	METAL GLAZE	10K	5%	1/10W						
R3048	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C4001	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
R3049	1-216-025-00	METAL GLAZE	100	5%	1/10W	C4002	1-124-902-00	ELECT	0.47MF	20%	50V
R3050	1-216-025-00	METAL GLAZE	100	5%	1/10W	C4003	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
		CONDUCTOR,						CERAMIC CHIP			25V
							1-126-967-11		47MF	20%	
R3053	1-216-627-11	METAL CHIP	100	0.50%	1/10W						
R3054	1-216-629-11	METAL CHIP	120	0.50%	1/10W	C4006	1-163-038-00	CERAMIC CHIP	0.1MF		25V
R3055	1-216-639-11	METAL CHIP	330	0.50%	1/10W	C4007	1-104-665-11	ELECT	100MF	20%	25V
R3056	1-216-648-11	METAL CHIP	750	0.50%	1/10W	C4008	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
R3057	1-216-639-11	METAL CHIP	330		1/10W	C4009	1-110-501-11	CERAMIC CHIP	0.33MF	10%	16V
								CERAMIC CHIP			
R3058	1-216-295-00	CONDUCTOR,	CHIP								
R3059	1-216-631-11	METAL CHIP	150	0.50%	1/10W			CERAMIC CHIP		10%	50V
R3060	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	C4012	1-164-005-11	CERAMIC CHIP	0.47MF		25V
R3061	1-216-642-11	METAL CHIP	430	0.50%	1/10W	C4013	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
R3063	1-216-113-00	METAL GLAZE	470K	5%	1/10W	C4014	1-110-501-11	CERAMIC CHIP	0.33MF	10%	16V
						C4015	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
		METAL GLAZE			1/10W						
		METAL GLAZE		5%	1/10W	C4016	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
R3066	1-216-075-00	METAL GLAZE	12K	5%	1/10W	C4017	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
		METAL GLAZE		5%	1/10W	C4018	1-163-038-00	CERAMIC CHIP	0.1MF		25V
R3068	1-216-075-00	METAL GLAZE	12K	5%	1/10W	C4019	1-126-967-11	ELECT	47MF	20%	16V
						C4020	1-110-501-11	CERAMIC CHIP	0.33MF	10%	
		METAL GLAZE		5%	1/10W						
R3070	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	C4021	1-163-031-11	CERAMIC CHIP	0.01MF		50V
		METAL GLAZE		5%	1/10W	C4022	1-163-031-11	CERAMIC CHIP	0.01MF		50V
		METAL GLAZE			1/10W			CERAMIC CHIP			50V
		METAL GLAZE			1/10W	C4024	1-163-038-00	CERAMIC CHIP	0.1MF		25V
B0	4.040.010.01	META: 0: 43-	500	5 07	4/4/0144	C4029	1-163-038-00	CERAMIC CHIP	0.1MF		25V
		METAL GLAZE			1/10W	0		OFD44#2 2:::=	a		0517
		METAL GLAZE			1/10W			CERAMIC CHIP			25V
		METAL GLAZE			1/10W		1-126-964-11		10MF	20%	
		METAL GLAZE			1/10W			CERAMIC CHIP		10%	
R3080	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	C4033	1-164-004-11	CERAMIC CHIP	0.1 MF	10%	25V
_						C4034	1-164-004-11	CERAMIC CHIP	0.1 MF	10%	25V
R3081	1-216-037-00	METAL GLAZE	330	5%	1/10W						



REF.NO.	PART NO.	DESCRIPTION	<u> </u>	R	EMARK	REF.NO.	PART NO.	DESCRIPTION	<u> </u>	R	EMARK
C4005	1 400 000 00	OFDAMIO CUID	0.4145		051/	04400	1 100 000 00	CEDAMIC CUID	0.4145		051/
		CERAMIC CHIP		000/	25V			CERAMIC CHIP		5 0/	25V
	1-126-964-11		10MF		50V			CERAMIC CHIP		5%	
		CERAMIC CHIP		10% 10%				CERAMIC CHIP		5% 5%	50V 50V
		CERAMIC CHIP		10%		C4125	1-163-275-11	CERAMIC CHIP	0.00 TMP	5%	50 V
C4039	1-164-004-11	CERAMIC CHIP	U. HVIF	10%	20 V	C4106	1 160 075 11	CERAMIC CHIP	0.001145	5%	50V
C4046	1 162 002 00	CERAMIC CHIP	QnE	0.25nE	50V			CERAMIC CHIP		5% 10%	
		CERAMIC CHIP			50V			CERAMIC CHIP		10%	
		CERAMIC CHIP		0.5pF				CERAMIC CHIP		10%	50V
		CERAMIC CHIP			50V			ELECT	10MF	20%	
		CERAMIC CHIP		376	25V	C4130	1-120-904-11	ELECT	IUIVIF	20%	50 V
C4030	1-103-036-00	CENAMIC CHIP	U. HVII		23 V	C4131	1-163-275-11	CERAMIC CHIP	0.001ME	5%	50V
C4051	1-126-967-11	FLECT	47MF	20%	16V			CERAMIC CHIP		5%	50V
		CERAMIC CHIP		2070	50V		1-126-924-11		330MF	20%	
		CERAMIC CHIP		5%	50V			CERAMIC CHIP		10%	
		CERAMIC CHIP		378	50V			CERAMIC CHIP		10 /6	25V
		CERAMIC CHIP			50V	04143	1 100 000 00	OLI IAMIO OI III	O. HVII		201
04000	1 100 001 11	OLI IAMIO OI III	0.011		301	C4146	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C4056	1-163-253-11	CERAMIC CHIP	120nF	5%	50V			CERAMIC CHIP		10 70	25V
	1-126-964-11		10MF	20%				CERAMIC CHIP			25V
	1-126-964-11		10MF	20%				CERAMIC CHIP		10%	-
		CERAMIC CHIP		20 /0	25V			CERAMIC CHIP		10 /6	16V
	1-126-964-11		10MF	20%		04100	1 104 307 11	OLI IAMIO OI III	2.21411		10 4
04000	1 120 004 11			2070		C4151	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C4072	1-126-923-11	ELECT	220MF	20%	10V			CERAMIC CHIP		0.5pF	
		CERAMIC CHIP		2070	25V			CERAMIC CHIP		5%	50V
_		ELECT	220MF	20%				CERAMIC CHIP		5%	50V
		CERAMIC CHIP		2070	25V			CERAMIC CHIP		5%	50V
		ELECT		20%		000		02	осор.	070	001
•	20 020			_0,0		C4156	1-163-263-11	CERAMIC CHIP	330nF	5%	50V
C4079	1-126-923-11	ELECT	220MF	20%	10V			CERAMIC CHIP		0 70	50V
C4080	1-163-038-00	CERAMIC CHIP		2070	25V		1-126-967-11		47MF	20%	
	1-126-923-11		220MF	20%				CERAMIC CHIP		20 /0	25V
		CERAMIC CHIP		2070	25V			CERAMIC CHIP			50V
		CERAMIC CHIP			25V				0.0		•••
					_•.	C4161	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C4084	1-126-923-11	ELECT	220MF	20%	10V			CERAMIC CHIP		5%	50V
	1-126-964-11		10MF	20%			1-126-964-11		10MF	20%	
		CERAMIC CHIP	0.1MF		25V		1-126-964-11		10MF	20%	
	1-126-967-11		47MF	20%		1		CERAMIC CHIP	27pF	5%	50V
C4100	1-163-038-00	CERAMIC CHIP	0.1MF		25V					- / -	
						C4176	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C4101	1-163-245-11	CERAMIC CHIP	56pF	5%	50V	C4177	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C4102	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C4178	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C4103	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C4179	1-124-902-00	ELECT	0.47MF	20%	50V
C4104	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C4180	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C4105	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V						
						C4181	1-126-967-11	ELECT	47MF	20%	16V
C4106	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C4182	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C4107	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C4183	1-104-665-11	ELECT	100MF	20%	25V
C4108	1-163-235-11	CERAMIC CHIP	22pF	5%	50V	C4184	1-163-038-00	CERAMIC CHIP	0.1 MF		25V
C4109	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C4185	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C4110	1-163-038-00	CERAMIC CHIP	0.1MF		25V						
								CERAMIC CHIP		10%	
C4111	1-126-964-11	ELECT	10MF	20%		C4187	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C4112	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C4188	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
_		CERAMIC CHIP			25V	ľ		CERAMIC CHIP			25V
C4114	1-126-964-11	ELECT	10MF	20%	50V	C4190	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C4115	1-126-964-11	ELECT	10MF	20%	50V						
_						l		CERAMIC CHIP		10%	
_		CERAMIC CHIP			25V			CERAMIC CHIP		10%	16V
_	1-126-964-11		10MF	20%				CERAMIC CHIP		5%	50V
		CERAMIC CHIP		10%				CERAMIC CHIP			25V
		CERAMIC CHIP		10%		C4196	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C4120	1-163-133-00	CERAMIC CHIP	470pF	5%	50V	_					
0 • • • •								CERAMIC CHIP			50V
C4121	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	C4198	1-163-031-11	CERAMIC CHIP	0.01 MF		50V



REF.NO.	PART NO.	DESCRIPTION	<u> </u>	R	EMARK	REF.NO.	PART NO.	DESCRIPTIO	N	R	EMARK
C4199	1-163-038-00	CERAMIC CHIP	O 1ME		25V	C4279	1-124-442-00	ELECT	330MF	20%	6.31/
-		CERAMIC CHIP			25V	042/3	1-124-442-00	LLLOI	SSOIVIE	20 76	0.3 V
		CERAMIC CHIP			50V						
04201	1 100 001 11	OLI WINIO OF III	0.011411		501		<connecto< td=""><td>OR></td><td></td><td></td><td></td></connecto<>	OR>			
C4202	1-163-245-11	CERAMIC CHIP	56pF	5%	50V						
C4203	1-163-038-00	CERAMIC CHIP	0.1MF		25V	CN1016	1-695-301-11	CONNECTOR	, BOARD TO	BOAR	D 40P
C4204	1-163-038-00	CERAMIC CHIP	0.1MF		25V						
		CERAMIC CHIP		5%	50V						
C4206	1-164-232-11	CERAMIC CHIP	0.01 MF	10%	50V		<diode></diode>				
C4207	1-163-235-11	CERAMIC CHIP	22pF	5%	50V	D303	8-719-404-49	DIODE MA111			
		CERAMIC CHIP	•		25V	I		DIODE 1SS13			
C4209	1-164-004-11	CERAMIC CHIP	0.1MF	10%		l		DIODE HVU35			
C4210	1-126-964-11	ELECT	10MF	20%	50V	D4005	8-719-914-43	DIODE DANZO)2K		
C4211	1-163-031-11	CERAMIC CHIP	0.01MF		50V	D4006	8-719-404-49	DIODE MA111			
C4212	1-126-064-11	FLECT	10MF	20%	50V	D4007	8-710-031-68	DIODE HVU35	COTDE		
C4213	1-126-964-11	ELECT ELECT	10MF		50V	l		DIODE DANS			
		CERAMIC CHIP		20 /0	25V	1		DIODE DANZO			
	1-126-964-11		10MF	20%		ı		DIODE HVU35			
_		CERAMIC CHIP		10%		ı		DIODE HVU35			
072.10	1-104-202-11	OLI IAIMIO OFIII	0.011411	10 /6	30 v	D4011	0-713-031-00	DIODE HV030	וחופו		
C4217	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	D4014	8-719-404-49	DIODE MA111			
C4218	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V	D4015	8-719-914-43	DIODE DAN20)2K		
C4220	1-163-099-00	CERAMIC CHIP	18pF	5%	50V	D4016	8-719-914-43	DIODE DAN20	2K		
C4221	1-163-038-00	CERAMIC CHIP	0.1MF		25V	D4017	8-719-914-43	DIODE DAN20	2K		
C4222	1-163-133-00	CERAMIC CHIP	470pF	5%	50V	D4018	8-719-404-49	DIODE MA111			
C4223	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	D4019	8-719-031-68	DIODE HVU35	9TRF		
		CERAMIC CHIP		5%				DIODE HVU35			
		CERAMIC CHIP		5%				DIODE MA111			
		CERAMIC CHIP		10%				DIODE MA111			
		CERAMIC CHIP		10%		2.020	071010110	DIODE WINTER			
C4228	1_163_031_11	CERAMIC CHIP	0.01ME		50V		<filter></filter>				
		ELECT	10MF	20%			CITETER>				
		CERAMIC CHIP		5%		EI 4001	1 222 426 11	FILTER, LOW	DACC		
		CERAMIC CHIP		10%				FILTER, LOW			
		CERAMIC CHIP		10 /6	25V			FILTER, LOW			
04203	1-100-000 00	OLI IAMIO OI III	O. HVII		201			FILTER, LOW			
C4240	1-163-031-11	CERAMIC CHIP	0.01ME		50V			FILTER, LOW			
		ELECT	10MF	20%		1 14003	1-200-400-11	FILTER, LOW	rass		
		ELECT	22MF	20%		EI 4006	1-992-494-11	FILTER, LOW	DACC		
		CERAMIC CHIP		20 /8	16V			FILTER, LOW			
		CERAMIC CHIP			25V			FILTER, LOW			
04240	1-100-000-00	OLI WINIO OI III	O. HVII		201			FILTER, LOW			
C4249	1-163-038-00	CERAMIC CHIP	0.1ME		25V			FILTER, LOW			
	1-126-964-11		10MF	20%		1 4014	. 200-400-11	TILTER, LOW	1 700		
	1-126-964-11		10MF	20%		El 4015	1-233-436-11	FILTER, LOW	DASS		
		CERAMIC CHIP		20 /6	25V			FILTER, LOW			
		CERAMIC CHIP			25V		1-233-736-21		rass		
04233	1-103-030-00	OLNAMIC CHIP	O. HVII		234		1-233-736-21				
C4254	1 162 275 11	CERAMIC CHIP	0.001ME	5%	50V		1-233-736-21	•			
		CERAMIC CHIP		5%	50V	FL4019	1-233-730-21	FILIEN, EIVII			
		CERAMIC CHIP				EL 4000	1 000 700 01	CUITED EM			
				10%			1-233-736-21				
		CERAMIC CHIP		5%	50V		1-233-736-21				
U4201	1-103-253-11	CERAMIC CHIP	120pF	5%	50V		1-233-736-21 1-233-736-21				
C4271	1-163-257-11	CERAMIC CHIP	180nF	5%	50V		1-233-736-21	•			
		CERAMIC CHIP	•	5%	50V 50V	1 14024	1-200-700-21	I IL I EM, EIVII			
		CERAMIC CHIP	•	5% 5%	50V 50V	EI 4005	1 000 706 04	ENTED TW			
_		CERAMIC CHIP	•		50V 50V	rL4025	1-233-736-21	FILICH, EMI			
_	1-103-253-11		220MF	5% 20%							
				20 /0			<ic></ic>				
C4276	1-126-923-11	ELECT	220MF	20%	10V						
C4277	1-163-038-00	CERAMIC CHIP	0.1MF		25V	IC4001	8-752-068-39	IC CXA1840S			
C4278	1-124-442-00	ELECT	330MF	20%	6.3V	IC4002	8-759-183-36	IC TDA8443B			



REF.NO. PART NO.	DESCRIPTION	N REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
104000 0 750 000 04	10 0VD0000 T	-0	1 4000 4 400 404 00	INDUSTOR COUL	.
IC4003 8-752-369-84 IC4004 8-752-369-15		6	L4032 1-408-401-00	INDUCTOR 2.2UH	
IC4004 8-752-369-15		- 4			
104003 6-732-337-60	IC CAD2300Q-1	4	<transisto< td=""><td>DR-</td><td></td></transisto<>	DR-	
IC4006 8-752-070-58	IC CXA1860Q-T	⁻ 4	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3112	
IC4007 8-759-430-79			Q4001 8-729-216-22	TRANSISTOR 2SA1162-G	
IC4008 8-759-981-61				TRANSISTOR 2SA1162-G	
IC4009 8-759-398-17	IC MC74HC04A	DR2	Q4003 8-729-216-22	TRANSISTOR 2SA1162-G	
IC4010 8-752-370-85	IC CXD2032Q-T	L	Q4004 8-729-216-22	TRANSISTOR 2SA1162-G	
			Q4005 8-729-216-22	TRANSISTOR 2SA1162-G	
IC4011 8-752-369-15					
IC4012 8-752-357-86		4		TRANSISTOR 2SA1162-G	
IC4013 8-752-068-39		-1		TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
IC4014 8-752-070-58 IC4015 8-759-430-79				TRANSISTOR 2SA1162-G	
104013 6-739-430-79	IC IDA03931/N	3		TRANSISTOR 2SA1162-G	
IC4016 8-759-981-61	IC LM2901M		Q4010 072021022	11041010101120711702 0	
IC4017 8-759-398-19		3DWR2	Q4011 8-729-216-22	TRANSISTOR 2SA1162-G	
IC4018 8-752-338-46	IC CXD1178Q		Q4013 8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC4019 8-752-337-04	IC CXD1176Q		Q4014 8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC4020 8-752-337-04	IC CXD1176Q			TRANSISTOR 2SA1162-G	
			Q4016 8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC4021 8-759-352-06			04017 0 700 000 74	TRANSISTOR 2SC2412K-QR	
IC4022 8-759-398-19 IC4023 8-759-009-02		3DWH2		TRANSISTOR 2SC2412R-QR	
IC4024 8-759-234-77				TRANSISTOR DTC114EK	
IC4025 8-759-352-05				TRANSISTOR DTA114EKA-T	146
				TRANSISTOR 2SA1162-G	
IC4026 8-759-398-17	IC MC74HC04A	DR2			
IC4027 8-759-251-48	IC UPC358GR-E	≣1	Q4023 8-729-216-22	TRANSISTOR 2SA1162-G	
IC4028 8-759-398-16	IC MC74HCU04	DR2	Q4024 8-729-920-74	TRANSISTOR 2SC2412K-QR	
				TRANSISTOR 2SC2412K-QR	
			· ·	TRANSISTOR 2SC2412K-QR	
<coil></coil>			Q4027 8-729-920-74	TRANSISTOR 2SC2412K-QR	
L4001 1-408-397-00	INDUCTOR	1UH	O4028 8-720-020-74	TRANSISTOR 2SC2412K-QR	
L4001 1-408-397-00 L4002 1-408-397-00		1UH		TRANSISTOR 2SC2412K-QR	
L4004 1-414-248-11		2.2UH		TRANSISTOR 2SC2412K-QR	
L4005 1-408-397-00		1UH		TRANSISTOR 2SC2412K-QR	
L4006 1-408-397-00	INDUCTOR	1UH	Q4032 8-729-920-74	TRANSISTOR 2SC2412K-QR	
			_		
L4007 1-408-401-00		2.2UH		TRANSISTOR 2SA1162-G	
L4008 1-408-401-00		2.2UH	1	TRANSISTOR 2SA1162-G	
L4011 1-408-401-00 L4012 1-408-401-00		2.2UH 2.2UH	1	TRANSISTOR 2SA1162-G	
L4012 1-408-397-00		1UH		TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G	
E4010 1-400 037-00	IIIDOO FOIT	1611	Q4003 0723 210 22	MANUSTON ZUATTUZ-G	
L4014 1-408-397-00	INDUCTOR	1UH	Q4040 8-729-920-74	TRANSISTOR 2SC2412K-QR	
L4015 1-408-397-00	INDUCTOR	1UH	Q4043 8-729-216-22	TRANSISTOR 2SA1162-G	
L4016 1-408-397-00	INDUCTOR	1UH	Q4045 8-729-216-22	TRANSISTOR 2SA1162-G	
L4018 1-408-397-00		1UH		TRANSISTOR 2SA1162-G	
L4019 1-414-248-11	INDUCTOR	2.2UH	Q4047 8-729-920-74	TRANSISTOR 2SC2412K-QR	
L4020 + 409 207 00	INDLICTOR	1UH	OANA 9 700 000 74	TRANSISTOR 2SC2412K-QR	
L4020 1-408-397-00 L4021 1-408-405-00		4.7UH		TRANSISTOR 2SC2412K-QR	
L4021 1-408-405-00 L4022 1-408-405-00		4.7UH		TRANSISTOR 2SC2412K-QR	
L4023 1-414-248-11		2.2UH	E .	TRANSISTOR 2SC2412K-QR	
L4024 1-414-248-11		2.2UH		TRANSISTOR 2SC2412K-QR	
L4025 1-408-397-00	INDUCTOR	1UH	Q4053 8-729-920-74	TRANSISTOR 2SC2412K-QR	
L4026 1-408-397-00		1UH		TRANSISTOR 2SC2412K-QR	
L4027 1-412-003-41				TRANSISTOR 2SC2412K-QR	
L4028 1-414-248-11		2.2UH		TRANSISTOR DTC144EKA-T	146
L4029 1-414-248-11	INDUCTOR	2.2UH	Q4057 8-729-216-22 	TRANSISTOR 2SA1162-G	
L4030 1-414-248-11	INDLICTOR	2.2UH	O4058 8-729-216-22	TRANSISTOR 2SA1162-G	
L4031 1-408-401-00		2.2UH		TRANSISTOR 2SAT162-G	
_ , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1 3		



REF.NO.	PART NO.	DESCRIPTION	RE	MARK	REF.NO.	PART NO.	DESCRIPTION	1	R	EMARK
					D.4000	4 040 007 00		10016		4/40144
		TRANSISTOR 2SA1162-G					METAL GLAZE		5%	1/10W
		TRANSISTOR 2SA1162-G					METAL GLAZE			1/10W
Q4062	8-729-216-22	TRANSISTOR 2SA1162-G					METAL GLAZE		5%	1/10W
					R4026	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
Q4063	8-729-216-22	TRANSISTOR 2SA1162-G			R4027	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
		TRANSISTOR 2SC2412K-C	R							
		TRANSISTOR 2SC2412K-C			R4028	1-216-055-00	METAL GLAZE	1 8K	5%	1/10W
		TRANSISTOR 2SC2412K-C					METAL GLAZE		5%	1/10W
		TRANSISTOR 2SC2412K-C					METAL GLAZE		5%	1/10W
Q4067	8-729-920-74	1 HANSISTON 2502412N-G	(n							
			_				METAL GLAZE		5%	1/10W
		TRANSISTOR 2SC2412K-C			H4032	1-216-033-00	METAL GLAZE	220	5%	1/10W
		TRANSISTOR 2SC2412K-C								
		TRANSISTOR 2SC2412K-C			R4033	1-216-025-00	METAL GLAZE	100	5%	1/10W
Q4071	8-729-920-74	TRANSISTOR 2SC2412K-C	≀R		R4034	1-216-033-00	METAL GLAZE	220	5%	1/10W
		TRANSISTOR 2SC2412K-C			R4035	1-216-033-00	METAL GLAZE	220	5%	1/10W
- · · · · -	0,20020		•				METAL GLAZE		5%	1/10W
04072	9 720 020 74	TRANSISTOR 2SC2412K-C	ND.				METAL GLAZE		5%	1/10W
			(11		114040	1 210 001 00	WILL THE GENEE	0.01	576	17 10 11
	-	TRANSISTOR 2SA1162-G			D4044	1 010 000 00	METAL OLAZE	000	C 0/	4 (4 0 14)
		TRANSISTOR DTC114EK					METAL GLAZE			1/10W
		TRANSISTOR DTA114EKA	-T146				METAL GLAZE			1/10W
Q4077	8-729-216-22	TRANSISTOR 2SA1162-G					METAL GLAZE			1/10W
					R4045	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
Q4078	8-729-920-74	TRANSISTOR 2SC2412K-C	}R		R4046	1-216-045-00	METAL GLAZE	680	5%	1/10W
Q4079	8-729-027-23	TRANSISTOR DTA114EKA	-T146							
	-	TRANSISTOR 2SA1162-G	_		R4047	1-208-800-11	METAL CHIP	5.6K	0.50%	61/10W
		TRANSISTOR 2SC2412K-C	ND.				METAL GLAZE			1/10W
			<i>(</i> 11)			1-208-800-11		5.6K		61/10W
Q4082	8-729-210-22	TRANSISTOR 2SA1162-G								
							METAL CHIP	560		61/10W
		TRANSISTOR DTC114EK	_		H4051	1-216-045-00	METAL GLAZE	680	5%	1/10W
Q4084	8-729-027-23	TRANSISTOR DTA114EKA	-T146							
Q4085	8-729-216-22	TRANSISTOR 2SA1162-G			R4052	1-216-631-11	METAL CHIP	150	0.50%	61/10W
Q4086	8-729-920-74	TRANSISTOR 2SC2412K-C)R		R4053	1-216-631-11	METAL CHIP	150	0.50%	61/10W
Q4087	8-729-216-22	TRANSISTOR 2SA1162-G			R4054	1-216-045-00	METAL GLAZE	680	5%	1/10W
	· · - · - · · - · - · - ·					1-216-645-11		560		61/10W
04088	8-720-027-22	TRANSISTOR DTA114EKA	-T146				METAL GLAZE			1/10W
		TRANSISTOR 2SC2412K-C			114000	1 210 040 01	METAL GOTEL	000	070	17 10 11
			(n		D4057	1 010 045 00	METAL OLAZE	000	E 0/	4/4014/
		TRANSISTOR DTC114EK					METAL GLAZE			1/10W
		TRANSISTOR DTC114EK					METAL CHIP	160		61/10W
Q4092	8-729-119-78	TRANSISTOR 2SC2785-HF	Έ			1-216-663-11		3.3K		61/10W
							METAL CHIP	2.4K	0.50%	61/10W
					R4061	1-216-663-11	METAL CHIP	3.3K	0.50%	61/10W
	<resistor:< td=""><td>></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></resistor:<>	>								
					R4062	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R4001	1-216-077-00	METAL GLAZE 15K	5%	1/10W			METAL GLAZE			1/10W
		METAL GLAZE 680		1/10W			METAL GLAZE			1/10W
							METAL GLAZE			1/10W
		METAL GLAZE 2.7K		1/10W						
		METAL GLAZE 33K	5%	1/10W	R4066	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R4005	1-216-673-11	METAL CHIP 8.2K	0.50%	61/10W						
					R4067	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R4007	1-216-033-00	METAL GLAZE 220	5%	1/10W	R4068	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R4009	1-216-037-00	METAL GLAZE 330	5%	1/10W	R4069	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
-		METAL GLAZE 680	5%	1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE 2.7K	5%	1/10W			METAL GLAZE		5%	1/10W
					114071	1-210-040-31	MILIAL GLAZE	500	J 70	17 10 44
H4012	1-216-073-00	METAL GLAZE 10K	5%	1/10W	540=0				0.500	
_						1-216-647-11		680		61/10W
		METAL GLAZE 4.7K	5%	1/10W		1-208-767-11		240		61/10W
R4014	1-216-025-00	METAL GLAZE 100	5%	1/10W	R4074	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R4015	1-216-089-00	METAL GLAZE 47K	5%	1/10W	R4075	1-216-049-00	METAL GLAZE	1K	5%	1/10W
		METAL GLAZE 3.3M	5%	1/10W	R4076	1-216-049-00	METAL GLAZE	1K	5%	1/10W
		METAL GLAZE 220	5%	1/10W					-	
	. 210 000 00		5,0	.,	P4077	1-216-040-00	METAL GLAZE	1K	5%	1/10W
D4040	1 216 022 00	METAL CLAZE 200	50/	1/10W			METAL GLAZE		_	1/10W
		METAL GLAZE 220	5%							
		METAL GLAZE 18K	5%	1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE 12K	5%	1/10W			METAL GLAZE		5%	1/10W
R4021	1-216-075-00	METAL GLAZE 12K	5%	1/10W	R4081	1-216-624-11	METAL CHIP	75	0.50%	61/10W
R4022	1-216-073-00	METAL GLAZE 10K	5%	1/10W						
					R4082	1-216-664-11	METAL CHIP	3.6K	0.50%	61/10W
					,					



REF.NO. PART NO. DESCRIPTION	REMARK	REF.NO. PART NO. DESCRIPTION	REMARK
D4092 1 016 051 00 METAL CLAZE 1 0K	F0/ 4/40144		
R4083 1-216-051-00 METAL GLAZE 1.2K R4084 1-216-059-00 METAL GLAZE 2.7K	5% 1/10W	R4142 1-208-806-11 METAL CHIP 10K	0.50%1/10W
R4085 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W 5% 1/10W	R4143 1-216-055-00 METAL GLAZE 1.8K	5% 1/10W
R4086 1-216-659-11 METAL CHIP 2.2K	0.50%1/10W	R4144 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W
2.2K	0.30 /6 1/ 10 44	R4145 1-216-049-00 METAL GLAZE 1K	F0/ 4/4014/
R4087 1-216-651-11 METAL CHIP 1K	0.50%1/10W		5% 1/10W
R4089 1-216-075-00 METAL GLAZE 12K	5% 1/10W	R4146 1-208-845-11 METAL GLAZE 1M R4147 1-216-061-00 METAL GLAZE 3.3K	5% 1/10W
R4090 1-216-063-91 METAL GLAZE 3.9K	5% 1/10W	R4148 1-216-071-00 METAL GLAZE 3.3K	5% 1/10W
R4091 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R4149 1-216-053-00 METAL GLAZE 8.2K	5% 1/10W 5% 1/10W
R4093 1-216-647-11 METAL CHIP 680	0.50%1/10W	114143 1210-003-00 METAL GLAZE 1.3K	5% 1/10W
		R4150 1-216-085-00 METAL GLAZE 33K	5% 1/10W
R4094 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W	R4151 1-216-057-00 METAL GLAZE 2.2K	5% 1/10 W
R4095 1-216-067-00 METAL GLAZE 5.6K	5% 1/10W	R4152 1-216-071-00 METAL GLAZE 8.2K	5% 1/10W
R4096 1-216-043-91 METAL GLAZE 560	5% 1/10W	R4153 1-216-073-00 METAL GLAZE 10K	5% 1/10W
R4098 1-208-767-11 METAL CHIP 240	0.50%1/10W	R4154 1-216-077-00 METAL GLAZE 15K	5% 1/10W
R4099 1-216-053-00 METAL GLAZE 1.5K	5% 1/10W	, , , , , , , , , , , , , , , , , , , ,	0,0 1,1011
		R4155 1-216-091-00 METAL GLAZE 56K	5% 1/10W
R4100 1-216-073-00 METAL GLAZE 10K	5% 1/10W	R4157 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R4101 1-216-065-00 METAL GLAZE 4.7K	5% 1/10W	R4158 1-208-845-11 METAL GLAZE 1M	5% 1/10W
R4102 1-216-073-00 METAL GLAZE 10K	5% 1/10W	R4159 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R4103 1-216-624-11 METAL CHIP 75	0.50%1/10W	R4160 1-216-097-00 METAL GLAZE 100K	5% 1/10W
R4104 1-216-049-00 METAL GLAZE 1K	5% 1/10 W		
B4405 4 540 540 540 540 540 540 540 540 5		R4161 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R4105 1-216-049-00 METAL GLAZE 1K	5% 1/10 W	R4162 1-216-097-00 METAL GLAZE 100K	5% 1/10W
R4106 1-216-057-00 METAL GLAZE 2.2K	5% 1/10 W	R4163 1-216-091-00 METAL GLAZE 56K	5% 1/10W
R4107 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R4164 1-216-073-00 METAL GLAZE 10K	5% 1/10W
R4108 1-216-097-00 METAL GLAZE 100K	5% 1/10W	R4165 1-216-063-91 METAL GLAZE 3.9K	5% 1/10W
R4109 1-216-105-00 METAL GLAZE 220K	5% 1/10 W	B4400 4 040 00 00 00 10 10 10 10 10 10 10 10 10 10	
R4110 1-216-049-00 METAL GLAZE 1K	E0/ 4/40M	R4166 1-216-097-00 METAL GLAZE 100K	5% 1/10W
R4111 1-216-073-00 METAL GLAZE 10K	5% 1/10W	R4167 1-216-624-11 METAL CHIP 75	0.50%1/10W
—	5% 1/10W	R4168 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W
R4112 1-216-648-11 METAL CHIP 750 R4113 1-208-767-11 METAL CHIP 240	0.50%1/10W	R4169 1-216-659-11 METAL CHIP 2.2K	0.50%1/10W
R4114 1-216-065-00 METAL GLAZE 4.7K	0.50%1/10W 5% 1/10W	R4170 1-216-651-11 METAL CHIP 1K	0.50%1/10W
THE TETO GOO OF METAL GLAZE 4.7K	370 1/1 /1/4	R4171 1-208-767-11 METAL CHIP 240	0.500/4/4014
R4115 1-216-651-11 METAL CHIP 1K	0.50%1/10W	H4171 1-208-767-11 METAL CHIP 240 R4173 1-216-075-00 METAL GLAZE 12K	0.50%1/10W
R4116 1-216-065-00 METAL GLAZE 4.7K	5% 1/10W	R4174 1-216-063-91 METAL GLAZE 3.9K	5% 1/10W
R4117 1-216-626-11 METAL CHIP 91	0.50%1/10W	R4175 1-216-049-00 METAL GLAZE 3.9K	5% 1/10W
R4118 1-216-650-11 METAL CHIP 910	0.50%1/10W	R4178 1-216-057-00 METAL GLAZE 7K	5% 1/10W 5% 1/10W
R4119 1-216-651-11 METAL CHIP 1K	0.50%1/10W	114176 1 210 007 00 METAL GLAZE 2.2K	5% 1/10 VV
		R4179 1-216-067-00 METAL GLAZE 5.6K	5% 1/10W
R4120 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R4180 1-216-043-91 METAL GLAZE 560	5% 1/10W
R4121 1-216-083-00 METAL GLAZE 27K	5% 1/10W	R4181 1-216-045-00 METAL GLAZE 680	5% 1/10W
R4122 1-216-063-91 METAL GLAZE 3.9K	5% 1/10W	R4182 1-208-767-11 METAL CHIP 240	0.50%1/10W
R4123 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R4186 1-216-664-11 METAL CHIP 3.6K	0.50%1/10W
R4124 1-216-073-00 METAL GLAZE 10K	5% 1/10W		
		R4187 1-216-051-00 METAL GLAZE 1.2K	5% 1/10W
R4125 1-216-073-00 METAL GLAZE 10K	5% 1/10 W	R4188 1-216-059-00 METAL GLAZE 2.7K	5% 1/10W
R4126 1-216-081-00 METAL GLAZE 22K	5% 1/10W	R4189 1-216-079-00 METAL GLAZE 18K	5% 1/10W
R4127 1-216-053-00 METAL GLAZE 1.5K	5% 1/10 W	R4190 1-216-075-00 METAL GLAZE 12K	5% 1/10W
R4128 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R4191 1-216-075-00 METAL GLAZE 12K	5% 1/10W
R4129 1-216-063-91 METAL GLAZE 3.9K	5% 1/10W		
R4130 1-216-065-00 METAL GLAZE 4.7K	E0/ 4/40144	R4192 1-216-073-00 METAL GLAZE 10K	5% 1/10W
R4131 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R4193 1-216-077-00 METAL GLAZE 15K	5% 1/10W
R4132 1-216-085-00 METAL GLAZE 33K	5% 1/10W	R4194 1-216-045-00 METAL GLAZE 680	5% 1/10W
R4133 1-216-057-00 METAL GLAZE 3.3K	5% 1/10W 5% 1/10W	R4195 1-216-059-00 METAL GLAZE 2.7K	5% 1/10W
R4134 1-216-073-00 METAL GLAZE 2.2K	5% 1/10W 5% 1/10W	R4196 1-216-085-00 METAL GLAZE 33K	5% 1/10W
TELO OF OUR METAL GLAZE TON	370 1/ IUW	R4197 1-216-673-11 METAL CHIP 8.2K	0.500/1/1014
R4135 1-216-063-91 METAL GLAZE 3.9K	5% 1/10W	R4198 1-216-033-00 METAL GLAZE 220	0.50%1/10W
R4136 1-216-053-00 METAL GLAZE 1.5K	5% 1/10W	R4201 1-216-037-00 METAL GLAZE 220	5% 1/10W
R4137 1-216-069-00 METAL GLAZE 6.8K	5% 1/10W	R4202 1-216-059-00 METAL GLAZE 330	5% 1/10W
R4138 1-216-063-91 METAL GLAZE 3.9K	5% 1/10W	R4203 1-216-045-00 METAL GLAZE 2.7K	5% 1/10W
R4139 1-216-049-00 METAL GLAZE 1K	5% 1/10W	200 1 210 040 00 WILLIAL GLAZE 000	5% 1/10W
		R4204 1-216-073-00 METAL GLAZE 10K	5% 1/10W
R4140 1-216-025-00 METAL GLAZE 100	5% 1/10W	R4206 1-216-113-00 METAL GLAZE 470K	5% 1/10W
R4141 1-208-812-11 METAL CHIP 18K	0.50%1/10W	R4207 1-216-025-00 METAL GLAZE 100	5% 1/10W
	'		• • • • • • • • • • • • • • • • • • • •



REF.NO.	PART NO.	DESCRIPTION	1	RE	MARK	REF.NO.	PART NO.	DESCRIPTION	<u> </u>	R	EMARK
		METAL GLAZE			1/10W	R4267	1-216-037-00	METAL GLAZE	330	5%	1/10W
H4209	1-216-033-00	METAL GLAZE	220	5%	1/10W	R4268	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R4210	1-216-033-00	METAL GLAZE	220	5%	1/10W			METAL GLAZE		5%	1/10W
		METAL CHIP	75		1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE	-		1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W		1-216-637-11		270		61/10W
		METAL GLAZE			1/10W			-			
						R4273	1-216-637-11	METAL CHIP	270	0.50%	61/10W
R4215	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R4274	1-216-637-11	METAL CHIP	270	0.50%	61/10W
R4216	1-216-097-00	METAL GLAZE	100K	5%	1/10W	R4275	1-216-627-11	METAL CHIP	100	0.50%	61/10W
R4217	1-216-105-00	METAL GLAZE	220K	5%	1/10W	R4276	1-216-627-11	METAL CHIP	100	0.50%	61/10W
		METAL GLAZE			1/10W	R4277	1-216-627-11	METAL CHIP	100	0.50%	61/10W
R4219	1-216-073-00	METAL GLAZE	10K	5%	1/10W						
							1-247-807-31		100		1/4W
		METAL CHIP	750		1/10W			METAL GLAZE		5%	1/10W
		METAL CHIP	240		1/10W		1-208-784-11		1.2K		61/10W
		METAL GLAZE	4.7K 1K		1/10W 1/10W		1-216-663-11	METAL CHIP	3.3K		61/10W 1/10W
_		METAL CHIP METAL GLAZE			1/10W	N4202	1-210-025-00	METAL GLAZE	100	376	1/1044
M4224	1-210-005-00	WETAL GLAZE	4.710	J /6	1/10**	B4283	1-216-057-00	METAL GLAZE	2 2K	5%	1/10W
B4225	1-216-626-11	METAL CHIP	91	0.50%	1/10W			METAL GLAZE		5%	1/10W
		METAL CHIP	910		1/10W			METAL GLAZE		5%	1/10W
		METAL CHIP	1K		1/10W			METAL GLAZE		5%	1/10W
R4228	1-208-812-11	METAL CHIP	18K	0.50%	1/10W	R4287	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R4229	1-216-025-00	METAL GLAZE	100	5%	1/10W						
								METAL GLAZE		5%	1/10W
• •		METAL GLAZE			1/10W			METAL GLAZE		5%	1/10W
		METAL CHIP	10K		1/10W			METAL GLAZE	-	5%	1/10W
		METAL GLAZE			1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W	R4292	1-216-666-11	METAL CHIP	4.3K	0.50%	61/10W
H4234	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	D4000	1 016 645 11	METAL CLUD	ECO	0.500/	1/10\A/
DADOE	1 216 091 00	METAL GLAZE	22K	5%	1/10W		1-216-645-11	METAL CHIP	560		51/10W 1/10W
		METAL GLAZE			1/10W			METAL GLAZE			1/10W
		METAL GLAZE			1/10W		1-216-666-11		4.3K		51/10W
		METAL GLAZE			1/10W		1-216-645-11		560		51/10W
		METAL GLAZE			1/10W						
						R4298	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R4240	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R4299	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
		METAL GLAZE			1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W		1-216-666-11		4.3K		1/10W
		METAL GLAZE			1/10W	R4302	1-216-645-11	METAL CHIP	560	0.50%	51/10W
H4244	1-216-0/3-00	METAL GLAZE	10K	5%	1/10W	D 4000	4 040 050 00	METAL OLAZE	0.716	5 0/	4/4014/
D4045	4 040 004 00	METAL OLAZE	0017	C 0/	4/4014/			METAL GLAZE		_	1/10W
		METAL GLAZE METAL GLAZE			1/10W 1/10W			METAL GLAZE		5% 5%	1/10W 1/10W
		METAL GLAZE			1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W		1-208-806-11		10K		51/10W
		METAL GLAZE			1/10W	. 1-007	. 200 000 11			0.00 /	,
	0,000		. • • • •	2.5		R4308	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R4250	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W			METAL GLAZE		5%	1/10W
R4252	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	R4314	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R4253	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R4315	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R4254	1-216-049-00	METAL GLAZE	1K	5%	1/10W						
_								METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W			METAL GLAZE		5% 5%	1/10W
_		METAL CHIP	2.4K		1/10W 1/10W	H4321	1-210-025-00	METAL GLAZE	100	5%	1/10W
M420U	1-210-001-00	METAL GLAZE	J.JN	5%	1/1044	Bysos	1-216-072-00	METAL GLAZE	10K	5%	1/10W
R4261	1-216-022-00	METAL GLAZE	220	5%	1/10W			METAL GLAZE		5% 5%	1/10W 1/10W
_		METAL GLAZE			1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W			CONDUCTOR,			.,
		METAL GLAZE			1/10W			CONDUCTOR,			
				•							

The components identified by shading and mark \(\frac{\Lambda}{\text{ are critical for safety.}} \)
Replace only with part number specified.



REF.NC). PART NO.	DESCRIPTIO	N	R	EMARK	REF.NO	. PART NO.	DESCRIPTION	1	R	<u>EMARK</u>
R4329 R4330	1-216-295-00 1-216-295-00	CONDUCTOR, CONDUCTOR, CONDUCTOR,	CHIP CHIP				* A-1241-255-A	F2 BOARD, CO			
) CONDUCTOR,) METAL GLAZE		5%	1/10 W		<capacitoi< td=""><td>35</td><td></td><td></td><td></td></capacitoi<>	35			
R4333	1-216-049-00	METAL GLAZE	1K	5%	1/10W		χο, τιστιστ	•			
		METAL GLAZE		5%	1/10W	***************	<u> 1-136-519-12</u>		0.47MF		300V
		METAL GLAZE		5%	1/10W	The second contract c	1-136-518-12		0.33MF		300V
		METAL GLAZE		5%	1/10W		1-107-670-41		10MF		400V
H433/	1-216-075-00	METAL GLAZE	: IZN	5%	1/10W		1-126-967-11 1-126-968-11		47MF 100MF	20% 20%	
R4338	1-216-049-00	METAL GLAZE	1K	5%	1/10W	0007	, 120 000 11	LLLO!	1001411	2070	00 v
R4339	1-216-001-00	METAL GLAZE	10	5%	1/10W	C658	1-126-951-11	ELECT	470MF	20%	35V
R4340	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C659	1-104-665-11	ELECT	100MF	20%	25V
		METAL GLAZE		5%	1/10W	C660	1-104-664-11		47MF	20%	25V
R4342	1-216-001-00) METAL GLAZE	10	5%	1/10W	C661	1-104-664-11		47MF	20%	enconference consists.
D4040	1 010 077 00	NACTAL CLAZE	151/	E0/	4/4014/	C662∆	1-113-893-51	GEHAMIC	0.0047MF	20%	250V
) METAL GLAZE) METAL GLAZE		5% 5%	1/10W 1/10W	Ceca A	∆1-113- 9 24-11	CEDANIC	0.0047MF	രവാഗ	nent/
		METAL GLAZE METAL GLAZE		5%	1/10W		∑1-113-893-51		0.0047MF		\$2000000000000000000000000000000000000
		METAL GLAZE		5%	1/10W		1-113-924-11		0.0047MF		
		METAL GLAZE		5%	1/10W		1-164-644-11	and the second s	330pF		500V
							1-164-644-11		330pF		500V
R4348	1-216-049-00	METAL GLAZE	1K	5%	1/10W				,		
		METAL GLAZE		5%	1/10W						
		METAL GLAZE		5%	1/10W		<connecto< td=""><td>OR></td><td></td><td></td><td></td></connecto<>	OR>			
		METAL GLAZE		5%	1/10W	0110504	** 004 004 44	DIN 0011150T			
H4352	1-216-001-00	METAL GLAZE	10	5%	1/10W	1		PIN, CONNECT	,	AHD) :	5P
D/353	1 216 077 00	METAL GLAZE	15K	5%	1/10W			PLUG, CONNECT		D)	
		METAL GLAZE METAL GLAZE		5%	1/10W			PIN, CONNECT			D D
		METAL GLAZE		5%	1/10W			PLUG, CONNEC		Anu) ()r
		METAL GLAZE		5%	1/10W	0.10000	. 557 555 77	, 200, 00, 11, 12,	5101101		
R4358	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	CN6507	*1-564-506-11	PLUG, CONNEC	CTOR 3P		
								TAB (CONTACT			
		METAL GLAZE			1/10W	CN6510	*1-564-506-11	PLUG, CONNEC	CTOR 3P		
		METAL CHIP	1.2K		61/10W						
		METAL CHIP METAL CHIP	1.2K 1.5K		61/10W 61/10W		<diode></diode>				
		METAL CHIP METAL GLAZE			1/10W		<diode></diode>				
114000	1-210-043-00	WILTAL GLAZE	TIX .	J /6	1/10**	D652 A	8-719-510-35	DIODE D2SBA6	ΛF		
R4364	1-216-049-00	METAL GLAZE	. 1K	5%	1/10W		4 6000000000000000000000000000000000000	DIODE UF4005I	and actually recorded about the control	100000000000	
		CONDUCTOR,						DIODE P6KE20			
		CONDUCTOR,				D655	8-719-979-58	DIODE EGP10D)		
		METAL GLAZE		5%	1/10W	D656	8-719-979-58	DIODE EGP10D)		
R4371	1-216-025-00	METAL GLAZE	100	5%	1/10W	D057	0.740.004.00	DIODE MEZILA	. .		
D4272	1 016 005 00	CONDUCTOR	CHID					DIODE MTZJ-13			
		CONDUCTOR, CONDUCTOR,						DIODE S2LA20F			
	1-249-421-11		2.2K	5%	1/4W		8-719-302-43		-20		
114070	1 245 421 11	O/III DOI	Z.Z.(0 70	17-711		8-719-302-43				
	<crystal></crystal>										
							<fuse></fuse>				
		VIBRATOR, CE									
		VIBRATOR, CF	,	O)		F651 ∆		FUSE 4A/250V			
		OSCILLATOR,		O)			1-533-230-11	HOLDER, FUSE	; F651		
		VIBRATOR, CF	•	U)							
A4005	1-52/-/22-00	OSCILLATOR,	CHISTAL				<ic></ic>				
X400e	1-760-895-91	VIBRATOR, CE	RAMIC				<10>>				
24,000	1 700-030-21	TIBLIATION, OE	1, 1, 1, 110			IC651	8-759-426-45	IC TOP210pF1			
							3 . 20 .20 40	.5 (5) E(0p) (
*******	********	*******	********	******	******						



The components identified by shading and mark ∆ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	R	EMARK	REF.NO.	PART NO.	DESCRIPTION		R	EMARK
	<coil></coil>					<capacito< th=""><th>₹></th><th></th><th></th><th></th></capacito<>	₹>			
	1-412-549-31 1-412-549-31 <filter></filter>		1mH 1mH		C1002 C1005 C1006	1-164-004-11 1-163-251-11 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 100pF 0.01MF	10% 5%	25V 25V 50V 50V 25V
1000 CO CO CO CO CO CO CO CO CO CO CO CO CO	, 1-424-436-11	TRANSFORMER TRANSFORMER			C1008 C1009 C1010	1-126-967-11 1-126-967-11	ELECT ELECT CERAMIC CHIP	47MF 47MF	20% 20% 10% 20%	16V 16V 25V
	<transisto< td=""><td>)R></td><td></td><td></td><td>C1012</td><td>1-124-925-11</td><td>ELECT</td><td>2.2MF</td><td>20%</td><td>50V</td></transisto<>)R>			C1012	1-124-925-11	ELECT	2.2MF	20%	50V
		TRANSISTOR 29 TRANSISTOR D			C1014 C1015 C1016	1-126-923-11	ELECT CERAMIC CHIP	220MF	20% 20% 10% 20% 5%	50V 25V 10V
R652 <u>A</u> R653 ∆ R654		WIREWOUND WIREWOUND FUSIBLE	1.8 5%	1/2W 10W 10W 1/4W F 1/4W	C1023 C1024 C1026	1-126-967-11	CERAMIC CHIP ELECT	47MF	10% 20% 10% 20% 20%	16V 25V 50V
	1-249-421-11 1-218-265-21 <relay></relay>		2.2K 5% 8. 2M 5%	1/4W 1W	C1030 C1031 C1032	1-126-967-11 1-163-017-00 1-164-004-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	47MF 0.0047MF 0.1MF	10% 20% 10% 10% 10%	16V 50V 25V
DV651 A	1-755-018-11	RELAV				1-126-967-11		47MF	20%	
					C1035 C1036	1-164-232-11 1-126-934-11	CERAMIC CHIP ELECT	0.01MF 220MF	10% 20%	50V 16V
	<transfor< td=""><td></td><td></td><td>; c. 1000-000000000000000000000000000000000</td><td></td><td>1-126-967-11 1-164-232-11</td><td>CERAMIC CHIP</td><td>47MF 0.01MF</td><td>20% 10%</td><td></td></transfor<>			; c. 1000-000000000000000000000000000000000		1-126-967-11 1-164-232-11	CERAMIC CHIP	47MF 0.01MF	20% 10%	
	.1-429-808-11	TRANSFORMER		*****	C1041 C1042 C1043	1-126-967-11 1-126-967-11 1-126-967-11 1-126-967-11	ELECT ELECT ELECT	47MF 47MF 47MF	20% 20% 20% 20%	16V 16V 16V
•	A-1241-256-A	F1 BOARD, CON			C1045 C1046 C1047	1-126-923-11 1-126-967-11	ELECT CERAMIC CHIP	220MF 47MF	10% 20% 20% 10% 20%	10V 16V 50V
	<connecto< td=""><td>OR></td><td></td><td></td><td></td><td>1-126-967-11</td><td></td><td>47MF</td><td>20%</td><td></td></connecto<>	OR>				1-126-967-11		47MF	20%	
CN8031 ³		PLUG, CONNEC	TOR 3P	. :	C1054 C1055	1-126-967-11 1-126-964-11	ELECT	47MF 10MF	10% 20% 20%	16V 50V
00000	<switch></switch>	A					CERAMIC CHIP CERAMIC CHIP		10%	25V 16V
**********		SWITCH, PUSH	(1 KEY) [MAIN]	*****	C1059 C1060 C1061	1-164-489-11 1-164-489-11 1-164-489-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.22MF 0.22MF 0.22MF	10% 10% 10% 10% 10%	16V 16V 16V
•		A BOARD, COM	******		C1066 C1069	1-164-489-11 1-126-964-11	CERAMIC CHIP ELECT	0.22MF 10MF	10% 20%	16V 50V
		SPRING, IC (IC1 SCREW (M3X10 (IC1035, Q1034)), P, SW (+)	033)	C1071	1-126-964-11 1-126-964-11 1-164-232-11		10MF 10MF 0.01MF	20% 20% 10%	50V



DEE NO	PART NO.	DESCRIPTION	ī		EMARK	I DEENO	. PART NO.	DESCRIPTION			EMARK
HEF.NO.	PARTINO.	DESCRIPTION	·	<u>n</u>	EMARK	REF.NO	. PART NO.	DESCRIPTION		R	EMARK
C1074	1-163-237-11	CERAMIC CHIP	27pF	5%	50V	C1137	1-163-229-11	CERAMIC CHIP	12pF	5%	50V
		CERAMIC CHIP		5%	50V	C1142	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
		CERAMIC CHIP		5%	50V			CERAMIC CHIP	0.001MF	10%	50V
		CERAMIC CHIP		5%	50V	C1147	1-126-967-11	ELECT	47MF	20%	16V
C1079	1-164-346-11	CERAMIC CHIP	1MF		16V						
04000		0504440 0140	0.0000145	4001	501/			CERAMIC CHIP		10%	
		CERAMIC CHIP		10%		1		CERAMIC CHIP			25V
		CERAMIC CHIP			16V 25V		1-163-038-00	CERAMIC CHIP		000/	25V
		CERAMIC CHIP		5%	50V			CERAMIC CHIP	47MF	20% 10%	
		CERAMIC CHIP		10%		01137	1-163-009-11	CENAMIC CHIP	U.UUTIVIF	10%	50 V
01000	1-104-252-11	CENAMIC CITIF	O.O HVII	10 /6	30, V	C1158	1-126-967-11	FLECT	47MF	20%	16\/
C1087	1-126-967-11	ELECT	47MF	20%	16V		1-126-967-11		47MF	20%	
	1-126-967-11		47MF	20%		1	1-126-967-11		47MF	20%	
	1-126-967-11		47MF	20%			1-126-967-11		47MF	20%	
C1090	1-126-967-11	ELECT	47MF	20%	16V	t	1-126-967-11		47MF	20%	
C1091	1-124-903-11	ELECT	1MF	20%	50V						
						C1165	1-126-967-11	ELECT	47MF	20%	16V
		CERAMIC CHIP			25V		1-126-967-11		47MF	20%	
	1-124-903-11		1MF	20%		1		CERAMIC CHIP		10%	
		CERAMIC CHIP		10%		1	1-124-925-11		2.2MF	20%	
		CERAMIC CHIP			25V	C1169	1-126-965-11	ELECT	22MF	20%	50V
C1096	1-164-005-11	CERAMIC CHIP	0.4/MF		25V	04470	4 404 000 44	FLEOT	44.05		
C1007	1 164 005 11	CERAMIC CHIP	0.47ME		25V		1-124-903-11 1-136-165-00		1MF	20%	
	1-126-934-11		220MF	20%		l .	1-110-495-11		0.1MF 220MF	5% 20%	50V
		CERAMIC CHIP		5%	50V	l.	1-110-495-11		220MF	20%	
		CERAMIC CHIP	•	0.5pF			1-136-165-00		0.1MF	5%	50V
	1-126-964-11		10MF	20%		01174	1 100 100 00	I IZIVI	O. HVII	J /6	J0 V
				_0,0		C1175	1-126-967-11	ELECT	47MF	20%	16V
C1105	1-126-964-11	ELECT	10MF	20%	50V		1-124-563-11		2200MF	20%	
C1106	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C1177	1-124-563-11	ELECT	2200MF	20%	25V
C1107	1-126-967-11	ELECT	47MF	20%		C1178	1-126-041-11	ELECT	2200MF	20%	35V
	1-126-964-11		10MF	20%		C1179	1-124-925-11	ELECT	2.2MF	20%	50V
C1110	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	_					
04444		0554440 01115	0.00145	100/	4014		1-136-165-00		0.1MF	5%	50V
		CERAMIC CHIP		10%		l .	1-126-967-11		47MF	20%	
		CERAMIC CHIP		10% 5%	50V	I .	1-126-967-11 1-124-903-11		47MF	20%	
	1-126-967-11		47MF	20%			1-124-903-11		1MF 22MF	20% 20%	
		CERAMIC CHIP				01104	1-120-303-11	ELECT	ZZIVIF	20%	50 V
0.,,0		02.0.000	0.0022	.0,0	001	C1185	1-126-967-11	ELECT	47MF	20%	16V
C1116	1-126-967-11	ELECT	47MF	20%	16V	1	1-126-967-11		47MF	20%	
C1117	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C1187	1-137-371-11	FILM	0.015MF	5%	50V
C1118	1-126-967-11	ELECT	47MF	20%	16V	C1188	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C1119	1-126-967-11	ELECT	47MF	20%	16V	C1189	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C1120	1-163-137-00	CERAMIC CHIP	680pF	5%	50V						
						l .	1-126-967-11		47MF	20%	
		CERAMIC CHIP		10%		l .	1-137-371-11		0.015MF	5%	50V
_	1-126-967-11		47MF	20%				CERAMIC CHIP		10%	
_		CERAMIC CHIP		10%			1-126-967-11		47MF	20%	
		CERAMIC CHIP		10% 10%		C1194	1-137-372-11	FILM	0.022MF	5%	50V
01123	1-107-023-11	CENAIVIIC CHIP	U.47 IVIF	10 /6	104	C1105	1-124-925-11	ELECT	2.2MF	20%	50V
C1126	1-163-251-11	CERAMIC CHIP	100nF	5%	50V	1	1-124-925-11	_	2.2MF	20%	
		CERAMIC CHIP		5%	50V	3	1-137-372-11	-	0.022MF	20 <i>%</i> 5%	50V
		CERAMIC CHIP		10%				CERAMIC CHIP			
		CERAMIC CHIP			25V		1-126-967-11		47MF	20%	
C1130	1-124-903-11	ELECT	1MF	20%			••	-			
						C1200	1-136-165-00	FILM	0.1MF	5%	50V
		CERAMIC CHIP		10%		C1201	1-163-037-11	CERAMIC CHIP	0.022MF	10%	
_		CERAMIC CHIP		10%		_		CERAMIC CHIP		10%	
	1-126-967-11		47MF	20%				CERAMIC CHIP		10%	
	1-126-964-11		10MF	20%		C1204	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
U1135	1-163-125-00	CERAMIC CHIP	220pF	5%	50V	0.100-	4.400.001	EL E.O.	4047		501
C1136	1 164 004 14	CERAMIC CHIP	O 184E	100/	251/	_	1-126-964-11		10MF	20%	
07130	1-104-004-11	CERAWIC CHIP	U. HVIF	10%	20 V	J C1206	1-104-101-}]	CERAMIC CHIP	U.UUZZMF	10%	30 V



REF.NO.	PART NO.	DESCRIPTION		RE	MARK	REF.NO.	PART NO.	DESCRIPTION		R	EMARK
	***					_					
	1-137-613-11		0.0018MF		100V		1-126-933-11			20%	
		CERAMIC CHIP		10%		C1267	1-126-964-11	ELECT	10MF	20%	50V
C1209	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V						
			 -				1-126-933-11			20%	
		CERAMIC CHIP		10%			1-126-964-11		10MF	20%	
		CERAMIC CHIP		10%			1-126-964-11			20%	
		CERAMIC CHIP		10%			1-136-165-00			5%	50V
		CERAMIC CHIP		10%		C1272	1-126-964-11	ELECT	10MF	20%	50V
C1214	1-126-967-11	ELECT	47MF	20%	16V				_		
							1-126-964-11			20%	
	1-126-967-11			20%				CERAMIC CHIP		10%	
C1216	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V			CERAMIC CHIP			25V
		CERAMIC CHIP						CERAMIC CHIP			25V
-		CERAMIC CHIP		10%		C1282	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1219	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V						
								CERAMIC CHIP			25V
		CERAMIC CHIP		10%				CERAMIC CHIP		10%	
		CERAMIC CHIP		10%				CERAMIC CHIP			25V
		CERAMIC CHIP		10%				CERAMIC CHIP		10%	
		CERAMIC CHIP		10%		C1287	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1226	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V						
								CERAMIC CHIP		10%	
		CERAMIC CHIP					1-126-964-11	_	10MF	20%	
			2.2 M F	20%			1-126-964-11			20%	
	1-124-925-11		2.2MF	20%				CERAMIC CHIP		10%	
	1-136-177-00		1MF	5%	50V	C1304	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C1231	1-136-177-00	FILM	1MF	5%	50V	_					
								CERAMIC CHIP		10%	
		CERAMIC CHIP						CERAMIC CHIP		10%	
C1233	1-163-007-11	CERAMIC CHIP		10%				CERAMIC CHIP		10%	
C1234	1-126-964-11	ELECT	10MF	20%				CERAMIC CHIP		10%	
C1236	1-164-348-11	CERAMIC CHIP	0.12MF	10%		C1312	1-126-967-11	ELECT	47MF	20%	16V
C1237	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V			0554440 0445		400/	4014
								CERAMIC CHIP		10%	
C1238	1-163-986-00	CERAMIC CHIP	0.027MF	10%		1		CERAMIC CHIP		10%	
		CERAMIC CHIP		10%	_	1	1-126-967-11		47MF	20%	
		CERAMIC CHIP		10%				CERAMIC CHIP		5%	50V
		CERAMIC CHIP		10%		C1317	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1242	1-163-014-00	CERAMIC CHIP	0.0027MF	5%	50V	04040		OFDANIO OLUB	0.04145	400/	501 /
.				5 0/	501/			CERAMIC CHIP		10%	
		CERAMIC CHIP			50V			CERAMIC CHIP		10%	
		CERAMIC CHIP						CERAMIC CHIP		10%	
		CERAMIC CHIP		10%				CERAMIC CHIP	t.	5%	50V
	1-126-965-11		22MF	20%		C1323	1-126-964-11	ELECT	10MF	20%	50 V
C1247	1-126-933-11	ELECT	100MF	20%	167	04004	4 404 000 44	OFBANIO OUID	0.04145	100/	501/
		0554440 0145	0.40145	400/	051/			CERAMIC CHIP		10%	
		CERAMIC CHIP		10%			1-126-933-11		100MF	20%	
		CERAMIC CHIP		10%				CERAMIC CHIP		10% 20%	
		CERAMIC CHIP		10%			1-126-964-11		10MF		
		CERAMIC CHIP		10%		C1329	1-124-903-11	ELECT	1MF	20%	50 V
G1252	1-163-022-00	CERAMIC CHIP	0.012MF	10%	50 V	C1000	1 164 000 11	CEDAMIC CUID	0.01145	10%	501/
04050		OEDAMIO OLIID	0.04145	100/	EOV.	1		CERAMIC CHIP		10%	
		CERAMIC CHIP		10%				CERAMIC CHIP			
		CERAMIC CHIP			50V	1		CERAMIC CHIP		10%	
		CERAMIC CHIP			50V			CERAMIC CHIP		10%	
		CERAMIC CHIP				C1334	1-164-232-11	CERAMIC CHIP	U.UTMF	10%	50 V
C1257	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50 V	04005	4 404 000 44	OFDAMIO OLUB	0.04145	100/	F01/
0			0.4145	5 0′	F01/			CERAMIC CHIP		10%	
	1-136-165-00		0.1MF	5%	50V			CERAMIC CHIP		10%	
	1-126-964-11		10MF	20%			1-126-923-11		220MF	20%	
	1-137-372-11		0.022MF	5%	50V			CERAMIC CHIP		10%	
	1-137-372-11		0.022MF	5% 5%	50V	U1339	1-164-004-11	CERAMIC CHIP	U.1MF	10%	25 V
C1262	1-137-371-11	FILM	0.015MF	5%	50V		4 400 074 **	OFDALLO OLUC	400:- T	E0/	E014
				5 0'	501/	1		CERAMIC CHIP		5%	50V
	1-130-489-00		0.033MF	5%	50V		1-124-902-00		0.47MF	20%	
		CERAMIC CHIP		10%				CERAMIC CHIP		10%	16V
U1265	1-126-952-11	ELECT	1000MF	20%	101	U1343	1-104-004-11	CERAMIC CHIP	U. HVIF	10%	20 V



REF.NO. PART NO.	DESCRIPTION	1	R	EMARK	REF.NO.	PART NO.	DESCRIPTION	RI	EMARK
C1344 1-124-925-11	ELECT	2.2MF	20%	50V	C1439	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
0.0									
C1345 1-126-965-11		22MF	20%			0011.4700			
C1346 1-164-222-11				25V		<osillator< td=""><td>></td><td></td><td></td></osillator<>	>		
C1347 1-164-222-11			_	25V					
C1352 1-163-251-11			5%	50V	CD1001	1-527-992-31	OSCILLATOR, CERAMIC		
C1353 1-163-251-11	CERAMIC CHIP	100pF	5%	50V					
C1355 1-163-113-00	CERAMIC CHIP	68pF	5%	50V		<filter></filter>			
C1356 1-163-251-11			5%	50V					
C1358 1-163-251-11			5%	50V	CE1001	1-760-416-21	FILTER, CERAMIC		
C1359 1-163-251-11				50V	1		FILTER, CERAMIC		
C1363 1-163-038-00			0,0	25V			FILTER, CERAMIC		
01000 1100 000 00	02117 111110 071117						FILTER, CERAMIC		
C1365 1-126-965-11	LELECT	22MF	20%	50V			FILTER, CERAMIC		
C1367 1-126-933-11		100MF	20%						
C1368 1-164-346-11			20,0	16V	CE1006	1-760-571-21	FILTER, CERAMIC		
C1369 1-163-031-11				50V			FILTER, CERAMIC		
C1372 1-163-235-11			5%	50V	1		FILTER, CERAMIC		
01072 1-100-200-11	OLIVATION OF III	ZZPI	0 70	301	0, 1000	. 700 400 27	1 12 12 11, 02 10 10110		
C1373 1-163-235-11		•	5%	50V					
C1375 1-163-038-00				25V		<connecto< td=""><td>)R></td><td></td><td></td></connecto<>)R>		
C1376 1-163-275-11	I CERAMIC CHIP	0.001MF	5%	50V					
C1377 1-164-004-1	I CERAMIC CHIP	0.1MF	10%	25V			TAB (CONTACT)		
C1378 1-164-346-1	I CERAMIC CHIP	1MF		16V			CONNECTOR, BOARD TO	BOAR	D 40P
							PLUG, CONNECTOR 2P		
C1382 1-164-346-1	I CERAMIC CHIP	1MF		16V	1		PLUG, CONNECTOR 5P		
C1384 1-164-346-1	1 CERAMIC CHIP	1MF		16V	CN1003	*1-564-513-11	PLUG, CONNECTOR 10P		
C1385 1-163-251-1	1 CERAMIC CHIP	100pF	5%	50V	İ				
C1387 1-164-222-1	1 CERAMIC CHIP	0.22MF		25V			PLUG, CONNECTOR 5P		
C1389 1-163-251-1	1 CERAMIC CHIP	100pF	5%	50V	1		PLUG, CONNECTOR 3P		
							PLUG, CONNECTOR 7P		
C1390 1-126-923-1	1 ELECT	220MF	20%		1		CONNECTOR, BOARD TO	BOAR	ID 40P
C1391 1-126-965-1		22MF	20%	50V	CN1021	*1-564-509-11	PLUG, CONNECTOR 6P		
C1392 1-163-251-1	1 CERAMIC CHIP	100pF	5%						
C1394 1-163-251-1	1 CERAMIC CHIP		5%		1		PLUG, CONNECTOR 3P		
C1397 1-126-952-1	1 ELECT	1000MF	20%	16V			PLUG, CONNECTOR 4P		
					L.		PLUG, CONNECTOR 3P		
C1398 1-126-967-1		47MF		16V			PLUG, CONNECTOR 7P		
C1399 1-164-232-1				50V	CN1032	*1-564-512-11	PLUG, CONNECTOR 9P		
C1402 1-163-113-0	O CERAMIC CHIP			50V					
C1403 1-126-964-1	1 ELECT	10MF		50V			PLUG, CONNECTOR 10P		
C1407 1-107-701-1	1 ELECT	47MF	20%	16V			PLUG, CONNECTOR 9P		
					1		PLUG, CONNECTOR 3P		
C1408 1-126-933-1		100MF		16V	CN4002	1-695-298-11	CONNECTOR, BOARD TO	BOAR	ID 40P
C1409 1-164-232-1	1 CERAMIC CHIP	0.01MF	10%	50V					
C1410 1-164-346-1				16V					
C1411 1-163-078-1				25V		<diode></diode>			
C1412 1-165-321-1	1 CERAMIC CHIP	0.68MF	10%	16V	D1001	9 710 014 40	DIODE DANGOOK		
O1445 4 404 000 1	4 OFDALMO OF	0.0444	100/	E0\/			DIODE DAN202K		
C1415 1-164-232-1				50V			DIODE DA204K DIODE DAP202K		
C1416 1-164-232-1				50V					
C1417 1-164-232-1			10%	50V			DIODE MTZJ-33C		
C1420 1-164-346-1				16V	D1007	8-719-110-73	DIODE RD30ESB3		
C1421 1-163-031-1	1 CERAMIC CHIP	0.01MF		50V	D1008	8-710-110-73	DIODE RD30ESB3		
C1422 1-163-031-1	1 CERAMIC CHIE	0.01MF		50V	1		DIODE DAN202K		
C1423 1-163-031-1				50V	1		DIODE DAN202K		
C1424 1-163-038-0				25V	1	-	DIODE DAN202K		
C1427 1-164-695-1			5%	50V	1		DIODE MA111		
C1428 1-164-232-1				50V	5.0.2	3			
314E0 1-104-202-1	. JEANNIO OHI	0.0 1111	. 0 /0		D1013	8-719-801-78	DIODE 1SS184		
C1430 1-164-004-1	1 CERAMIC CHIE	0.1MF	10%	25V	1		DIODE DAN202K		
C1431 1-126-963-1		4.7MF		50V	1		DIODE DAN202K		
C1432 1-124-925-1		2.2MF		50V			DIODE DAP202K		
C1433 1-124-925-1		2.2MF		50V			DIODE DAN202K		
C1434 1-164-232-1				50V			•		
					•				



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO	. PART NO.	DESCRIPTION	١	REMARK
D1020 8-719-914-44	DIODE DAP202K		IC1023	8-759-378-21	IC ST24C16FB6	3	
D1021 8-719-109-89	DIODE RD5.6ESB2						
D1022 8-719-109-89			IC1024	8-759-248-91	IC SDA9086-5		
	B DIODE MA3030-H (TX)				IC TDA2822M		
D1026 8-719-914-43				8-759-909-71			
_ 1020 0 710 011 10				8-759-909-71			
D1027 8-719-914-42	DIODE DA204K				IC TDA2009A		
D1101 8-719-914-43			10.1020	0 700 300 40	10 IDAZOOJA		
D1102 8-719-820-71			IC1029	8-759-980-43	IC TDA2009A		
D1103 8-719-914-43					IC CXA2011Q		
D1104 8-719-914-43			l		IC CXA1315M		
21107 2110 311 10					IC CXA1839Q-7	г 6	
D1105 8-719-914-43	B DIODE DAN202K				IC NJM78M09F	-	
D1106 8-719-914-43				0.00.00		, ,	
	,		IC1035	8-759-513-71	IC PQ05RF21		
			ı		IC TL431CLP		
<ferrite b<="" td=""><td>FAD></td><td></td><td>l .</td><td></td><td>IC MB3793-42P</td><td>NE</td><td></td></ferrite>	FAD>		l .		IC MB3793-42P	NE	
\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			i		IC MC74F02M-		
FB1001 1-216-296-00	CONDUCTOR, CHIP			8-759-054-12			
	CONDUCTOR, CHIP		.0.0.0	0,0000,12			
FB1003 1-543-813-21							
	CONDUCTOR, CHIP			<chip cond<="" td=""><td>UCTOR></td><td></td><td></td></chip>	UCTOR>		
	CONDUCTOR, CHIP			(O) III OO II	.0010112		
			JR1006	1-216-295-00	CONDUCTOR.	CHIP	
FB1006 1-543-813-21	FILTER, EMI				CONDUCTOR,		
FB1007 1-543-813-21	•		l		CONDUCTOR,		
FB1008 1-543-813-21					CONDUCTOR,		
	CONDUCTOR, CHIP				CONDUCTOR,		
FB1010 1-543-813-21						·	
	•		JR1026	1-216-295-00	CONDUCTOR,	CHIP	
FB1011 1-543-813-21	FILTER, EMI				CONDUCTOR,		
FB1012 1-543-813-21					CONDUCTOR.		
	,				CONDUCTOR,		
		!			CONDUCTOR,		
<filter></filter>							
			JR1033	1-216-295-00	CONDUCTOR,	CHIP	
FL1004 1-408-409-00			JR1118	1-216-295-00	CONDUCTOR,	CHIP	
FL1005 1-408-409-00							
FL1006 1-408-607-31							
	ENCAPSULATED COMPONENT			<coil></coil>			
FL1008 1-216-158-00	METAL GLAZE 22 5%	1/8W					
				1-408-421-00		100UH	
				1-408-419-00		68UH	
<ic></ic>				1-407-500-00		4.7mH	
101001 0 750 070 01	10 0VP050P0040 4 040			1-408-419-00		68UH	
	IC CXP852P32AQ-1-012		L1007	1-408-421-00	INDUCTOR	100UH	
IC1003 8-759-514-57			14000	1 100 101 00	INDUIOTOR	4001111	
IC1004 8-759-520-85			1	1-408-421-00		100UH	
IC1005 8-759-520-85				1-408-397-00		1UH	
IC1006 8-759-710-86	IC NJWIZZ33BW			1-408-419-00		68UH	
IC1007 8-759-708-05	IC NUMPRIORA			1-408-409-00		10UH	
IC1007 8-759-708-05			LIUIS	1-408-416-00	INDUCTOR	39UH	
IC1009 8-759-710-80			11014	1 400 401 00	INDUCTOR	100UH	
IC1010 8-752-067-36				1-408-421-00 1-408-421-00		100UH	
IC1012 8-752-072-94				1-408-421-00		18UH	
101013 6-759-251-56	10 3AA7263GF						
IC1014 8-759-085-51	IC N IM2284M			1-408-409-00 1-408-607-31		10UH 22UH	
	IC NJM2264M IC TDA6812-2MGEG		L1021	1-400-00/-31	II ADOCTOR	22011	
IC1015 8-759-348-87			11000	1-408-607-31	INDLICTOR	22UH	
IC1017 8-759-909-71			ľ	1-408-607-31		22UH	
	C IC SDA30C164-GEG			1-408-421-00		100UH	
10 10 10 0°/00°001°02	. IO ODNOVO TOT GEG				FERRITE BEAD		R 1.1UH
IC1020 8-750-337-48	IC SDA5273P-C26-GEG			1-410-397-21		68UH	1.100
IC1020 6-759-337-46			L102/	1-400-413-00	" POOLION	OOUH	
	IC TMS27PC020-15FMLLE101		1 1028	1-408-607-31	INDUCTOR	22UH	
	IC MB81C4256A-70PSZG				INDUCTOR CH		6.8UH
022 5 700 100 00			_,,,,,,			•	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO	. PART NO.	DESCRIPTION		RI	EMARK
	1-408-419-00					TRANSISTOR D			
L1104	1-408-421-00	INDUCTOR 100UH				TRANSISTOR 2			
				-,		TRANSISTOR D			
	<ic link=""></ic>					TRANSISTOR D		_	
	<ic link=""></ic>			Qiooi	0-729-027-32	MANOGRA	710124EKA 1	140	
PS1001.A	1-532-637-91	LINK, IC 1A/150V		Q1062	8-729-027-59	TRANSISTOR D	TC144EKA-T	146	
		LINK, IC 2A/90V		Q1064	8-729-027-52	TRANSISTOR D	TC124EKA-T	146	
PS1003A	1-532-984-91	LINK, IC 2A/90V		1		TRANSISTOR 2		₹	
						TRANSISTOR 2			
				Q1067	8-729-216-22	TRANSISTOR 2	SA1162-G		
	<transistc< td=""><td>)R></td><td></td><td>01060</td><td>0 700 016 00</td><td>TRANSISTOR 2</td><td>SA1162-G</td><td></td><td></td></transistc<>)R>		01060	0 700 016 00	TRANSISTOR 2	SA1162-G		
01001	0.700.007.50	TRANSISTOR DTC144EKA-T1	146			TRANSISTOR D			
Q1001	9-729-027-09	TRANSISTOR DIC144EKA-11	140			TRANSISTOR D		146	
		TRANSISTOR DTC144EKA-T1	146			TRANSISTOR D			
		TRANSISTOR DTC144EKA-T1				TRANSISTOR D			
		TRANSISTOR 2SC2412K-QR							
				_,		TRANSISTOR 2			
Q1008	8-729-920-74	TRANSISTOR 2SC2412K-QR				TRANSISTOR 2		_	
Q1011	8-729-920-74	TRANSISTOR 2SC2412K-QR				TRANSISTOR 2			
Q1012	8-729-027-59	TRANSISTOR DTC144EKA-T	146			TRANSISTOR 2			
		TRANSISTOR 2SC2412K-QR		QIIUS	8-729-920-74	I HANSISTON 2	2502412N-QF	1	
Q1014	8-729-920-74	TRANSISTOR 2SC2412K-QR		01106	8-729-920-74	TRANSISTOR 2	SC2412K-OF	2	
O1015	9-720-020-74	TRANSISTOR 2SC2412K-QR				TRANSISTOR 2			
		TRANSISTOR 2SA1162-G		_, _,		TRANSISTOR 2			
		TRANSISTOR 2SC2412K-QR		Q1109	8-729-920-74	TRANSISTOR 2	2SC2412K-QF	₹	
Q1018	8-729-216-22	TRANSISTOR 2SA1162-G		Q1110	8-729-920-74	TRANSISTOR 2	2SC2412K-QF	₹	
Q1019	8-729-216-22	TRANSISTOR 2SA1162-G		_					
						TRANSISTOR 2			
Q1020	8-729-920-74	TRANSISTOR 2SC2412K-QR				TRANSISTOR 2 TRANSISTOR 2		1	
		TRANSISTOR 2SC2412K-QR				TRANSISTOR 2			
		P TRANSISTOR 2SA1162-G P TRANSISTOR 2SA1162-G				TRANSISTOR 2		3	
Q1024 Q1025	8-729-216-22	TRANSISTOR 2SA1162-G			0,10010				
Q1020	0 /20 210 22	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Q1118	8-729-920-74	TRANSISTOR 2	2SC2412K-QF	₹	
Q1026	8-729-216-22	TRANSISTOR 2SA1162-G				TRANSISTOR 2			
		TRANSISTOR 2SA1162-G		Q1120	8-729-920-74	TRANSISTOR 2	2SC2412K-QF	₹	
Q1028	8-729-216-22	TRANSISTOR 2SA1162-G							
		TRANSISTOR 2SC2412K-QR			<resistor< td=""><td>_</td><td></td><td></td><td></td></resistor<>	_			
Q1030	8-729-920-74	TRANSISTOR 2SC2412K-QR			<nesis i="" on<="" td=""><td>></td><td></td><td></td><td></td></nesis>	>			
O1031	8-720-020-74	TRANSISTOR 2SC2412K-QR		R1001	1-216-073-00	METAL GLAZE	10K 5	5%	1/10W
Q1031	8-729-216-22	TRANSISTOR 2SA1162-G				METAL GLAZE		5%	1/10W
Q1033	8-729-216-22	TRANSISTOR 2SA1162-G		R1004	1-216-025-00	METAL GLAZE	100	5%	1/10W
Q1034	8-729-032-65	TRANSISTOR 2SD2396H				METAL GLAZE		5%	1/10W
Q1035	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1006	1-216-025-00	METAL GLAZE	100	5%	1/10W
		· · · · · · · · · · · · · · · · · ·		D4007	. 1 010 000 00	METAL CLAZE	220 4	E0/	1/10W
		TRANSISTOR 2SC2412K-QR) METAL GLAZE) METAL GLAZE		5% 5%	1/10W
Q1037	8-729-920-74	\$ TRANSISTOR 2SC2412K-QR \$ TRANSISTOR 2SC2412K-QR				METAL GLAZE METAL GLAZE		5%	1/10W
Q1038	8-729-920-74	TRANSISTOR 2SC2412K-QR				METAL GLAZE		5%	1/10W
		TRANSISTOR 2SA1162-G		R1011	1-216-073-00	METAL GLAZE	10K !	5%	1/10W
4.0.0	0,202.02.								
Q1042	8-729-216-22	2 TRANSISTOR 2SA1162-G				METAL GLAZE		5%	1/10W
Q1043	8-729-216-22	2 TRANSISTOR 2SA1162-G				METAL GLAZE		5%	1/10W
Q1044	8-729-216-22	2 TRANSISTOR 2SA1162-G				METAL GLAZE		5%	1/10W
		2 TRANSISTOR 2SA1162-G				I METAL GLAZE		5% 5%	1/10W 1/8W
Q1046	8-729-403-27	7 TRANSISTOR XN4401		H1017	1-216-198-9	I METAL GLAZE	: 115.	5%	1/044
O1047	0 700 000 7	4 TRANSISTOR 2SC2412K-QR	•	R1019	1-216-198-9	METAL GLAZE	1K !	5%	1/8W
		4 TRANSISTOR 2SC2412K-QR 4 TRANSISTOR 2SC2412K-QR				METAL GLAZE		5%	1/10W
Q1048	8-729-216-2	2 TRANSISTOR 2SA1162-G	-	R1020) 1-216-198-9 ⁻	I METAL GLAZE	1K !	5%	1/8W
		4 TRANSISTOR XN4601				CONDUCTOR,			
		4 TRANSISTOR XN4601		R1022	2 1-216-025-0	METAL GLAZE	100	5%	1/10W
				1					



REF.NO. PART NO. DESCRIPTION	REMARK	REF.NO. PART NO. DESCRIPTION	REMARK
R1023 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1095 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R1024 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1096 1-216-073-00 METAL GLAZE 1R	5% 1/10W
R1025 1-216-025-00 METAL GLAZE 100	5% 1/10W	R1097 1-216-073-00 METAL GLAZE 10K	5% 1/10W
R1026 1-216-025-00 METAL GLAZE 100	5% 1/10W	R1098 1-216-025-00 METAL GLAZE 100	5% 1/10W
R1027 1-216-073-00 METAL GLAZE 10K	5% 1/10W	111030 1210-023 00 METAL GEAZE 100	378 1710**
THOSE TETO OF OUT THE GENERAL TORK	070 171011	R1099 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R1028 1-216-073-00 METAL GLAZE 10K	5% 1/10W	R1100 1-216-037-00 METAL GLAZE 330	5% 1/10W
R1029 1-216-025-00 METAL GLAZE 100	5% 1/10W	R1101 1-216-025-00 METAL GLAZE 100	5% 1/10W
R1030 1-216-025-00 METAL GLAZE 100	5% 1/10W	R1102 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R1034 1-216-043-91 METAL GLAZE 560	5% 1/10W	R1103 1-216-134-00 METAL GLAZE 2.2	5% 1/8W
R1035 1-216-043-91 METAL GLAZE 560	5% 1/10W		
		R1104 1-216-085-00 METAL GLAZE 33K	5% 1/10W
R1036 1-216-043-91 METAL GLAZE 560	5% 1/10 W	R1105 1-216-055-00 METAL GLAZE 1.8K	5% 1/10W
R1037 1-216-295-00 CONDUCTOR, CHIP		R1106 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R1039 1-216-083-00 METAL GLAZE 27K	5% 1/10W	R1107 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R1040 1-216-065-00 METAL GLAZE 4.7K	5% 1/10W	R1108 1-208-845-11 METAL GLAZE 1M	5% 1/10W
R1041 1-216-077-00 METAL GLAZE 15K	5% 1/10W		
		R1109 1-208-845-11 METAL GLAZE 1M	5% 1/10W
R1042 1-216-689-11 METAL GLAZE 39K	5% 1/10W	R1110 1-216-150-91 METAL GLAZE 10	5% 1/8W
R1043 1-216-057-00 METAL GLAZE 2.2K	5% 1/10 W	R1111 1-216-025-00 METAL GLAZE 100	5% 1/10W
R1044 1-216-069-00 METAL GLAZE 6.8K	5% 1/10W	R1112 1-216-025-00 METAL GLAZE 100	5% 1/10W
R1045 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W	R1113 1-216-117-00 METAL GLAZE 680K	5% 1/10W
R1046 1-216-049-00 METAL GLAZE 1K	5% 1/10W		
		R1115 1-208-845-11 METAL GLAZE 1M	5% 1/10W
R1048 1-249-417-11 CARBON 1K	5% 1/4W F	R1116 1-216-081-00 METAL GLAZE 22K	5% 1/10W
R1051 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1117 1-216-073-00 METAL GLAZE 10K	5% 1/10W
R1052 1-216-061-00 METAL GLAZE 3.3K	5% 1/10W	R1118 1-216-134-00 METAL GLAZE 2.2	5% 1/8W
R1053 1-216-065-00 METAL GLAZE 4.7K	5% 1/10W	R1121 1-216-097-00 METAL GLAZE 100K	5% 1/10W
R1054 1-216-025-00 METAL GLAZE 100	5% 1/10W	B4400 4 040 007 00 METAL OLATE 400K	501 4140141
D4055 4 040 070 00 METAL OLAZE 401/	F0/ 4/40141	R1122 1-216-097-00 METAL GLAZE 100K	5% 1/10W
R1055 1-216-073-00 METAL GLAZE 10K	5% 1/10W	R1123 1-216-101-00 METAL GLAZE 150K	5% 1/10W
R1056 1-216-081-00 METAL GLAZE 22K	5% 1/10W 5% 1/10W	R1124 1-216-089-00 METAL GLAZE 47K	5% 1/10W
R1057 1-216-065-00 METAL GLAZE 4.7K	5% 1/10W	R1125 1-216-097-00 METAL GLAZE 100K R1126 1-216-049-00 METAL GLAZE 1K	5% 1/10W 5% 1/10W
R1058 1-216-065-00 METAL GLAZE 4.7K R1059 1-216-043-91 METAL GLAZE 560	5% 1/10W	H1120 1-210-049-00 WETAL GLAZE TK	5% 1/1UW
H1039 1-210-043-91 WETAL GLAZE 300	376 1/10 44	R1127 1-216-097-00 METAL GLAZE 100K	5% 1/10W
R1060 1-216-043-91 METAL GLAZE 560	5% 1/10W	R1128 1-216-101-00 METAL GLAZE 150K	5% 1/10W
R1061 1-216-043-91 METAL GLAZE 560	5% 1/10W	R1129 1-216-119-00 METAL GLAZE 820K	5% 1/10W
R1062 1-216-295-00 CONDUCTOR, CHIP	0,0 1,1011	R1130 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R1063 1-216-083-00 METAL GLAZE 27K	5% 1/10W	R1131 1-216-037-00 METAL GLAZE 330	5% 1/10W
R1064 1-216-073-00 METAL GLAZE 10K	5% 1/10W		0.00 11.000
		R1132 1-216-097-00 METAL GLAZE 100K	5% 1/10W
R1066 1-216-025-00 METAL GLAZE 100	5% 1/10W	R1133 1-216-089-00 METAL GLAZE 47K	5% 1/10W
R1067 1-216-025-00 METAL GLAZE 100	5% 1/10W	R1134 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R1068 1-216-073-00 METAL GLAZE 10K	5% 1/10W	R1135 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R1070 1-216-043-91 METAL GLAZE 560	5% 1/10W	R1138 1-216-043-91 METAL GLAZE 560	5% 1/10W
R1071 1-216-049-00 METAL GLAZE 1K	5% 1/10W		
		R1139 1-216-037-00 METAL GLAZE 330	5% 1/10W
R1072 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1140 1-216-037-00 METAL GLAZE 330	5% 1/10W
R1073 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1141 1-216-025-00 METAL GLAZE 100	5% 1/10W
R1074 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1144 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R1075 1-216-073-00 METAL GLAZE 10K	5% 1/10W	R1145 1-216-001-00 METAL GLAZE 10	5% 1/10W
R1076 1-216-049-00 METAL GLAZE 1K	5% 1/10W		
		R1146 1-216-045-00 METAL GLAZE 680	5% 1/10W
R1077 1-216-113-00 METAL GLAZE 470K	5% 1/10W	R1147 1-216-039-00 METAL GLAZE 390	5% 1/10W
R1078 1-216-113-00 METAL GLAZE 470K	5% 1/10W	R1148 1-216-045-00 METAL GLAZE 680	5% 1/10W
R1079 1-218-755-11 METAL CHIP 130K	0.50%1/10W	R1149 1-216-001-00 METAL GLAZE 10	5% 1/10W
R1080 1-216-113-00 METAL GLAZE 470K	5% 1/10W	R1150 1-216-039-00 METAL GLAZE 390	5% 1/10W
R1081 1-216-073-00 METAL GLAZE 10K	5% 1/10W	D4454 4 040 040 00 METAL OLAZE 313	E0/ 4/4014
P1000 1 010 107 00 METAL CLASE 0704	E0/ 4/40\4/	R1151 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R1082 1-216-107-00 METAL GLAZE 270K	5% 1/10W	R1152 1-216-041-00 METAL GLAZE 470	5% 1/10W
R1084 1-216-639-11 METAL CHIP 330	0.50%1/10W	R1153 1-216-041-00 METAL GLAZE 470	5% 1/10W
R1086 1-208-784-11 METAL CHIP 1.2K	0.50%1/10W	R1154 1-216-041-00 METAL GLAZE 470	5% 1/10W
R1089 1-216-043-91 METAL GLAZE 560	5% 1/10W	R1155 1-216-295-00 CONDUCTOR, CHIP	
R1092 1-216-646-11 METAL CHIP 620	0.50%1/10W	R1156 1-216-295-00 CONDUCTOR, CHIP	
R1094 1-216-651-11 METAL CHIP 1K	0.50%1/10W	R1157 1-216-295-00 CONDUCTOR, CHIP	
JOH TEIS BOT IT METAL OITH	0.00 /0 1/ 1044	1	



REF.NO. PART NO.	DESCRIPTION		RE	MARK	R	EF.NO.	PART NO.	DESCRIPTION	<u> </u>	RE	MARK
R1158 1-249-419-11 C	ARRON 1	1.5K	5%	1/4W		R1222	1-249-389-11	CARBON	4.7	5%	1/4W F
R1159 1-247-807-31 C			5%					METAL GLAZE			1/10W
R1160 1-216-651-11 M			0.50%					_			
						R1224	1-216-663-11	METAL CHIP		0.50%	
R1161 1-216-059-00 M	METAL GLAZE 2	2.7K	5%	1/10W		-	1-249-385-11				1/4W F
R1162 1-216-295-00 C								METAL CHIP		0.50%	
R1163 1-216-655-11 M	METAL CHIP 1			1/10W				METAL CHIP	27	0.50%	
R1164 1-216-059-00 M			5%	1/10W		H1228	1-216-659-11	METAL CHIP	2.2K	0.50%	1/1000
R1165 1-216-295-00 C	CONDUCTOR, C	HIP				D1220	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1166 1-216-043-91 M	AETAL GLAZE S	560	5%	1/10W				METAL GLAZE			1/10W
R1167 1-216-295-00 C			J /6	1/1011				METAL GLAZE			1/10W
R1169 1-216-043-91 M			5%	1/10W	- 1		1-249-421-11		2.2K	5%	1/4W
R1170 1-216-651-11 M			0.50%	1/10W		R1233	1-249-421-11	CARBON	2.2K	5%	1/4W
R1171 1-216-059-00 M		2.7K	5%	1/10W							
								METAL CHIP		0.50%	
R1172 1-216-295-00 C					İ			METAL CHIP	1K	0.50%	
R1173 1-216-655-11 M				1/10W				METAL GLAZE		5%	
R1174 1-216-059-00 M				1/10W	- [METAL CHIP	10K	0.50%	
R1175 1-216-025-00 M				1/10W		H1238	1-216-6/3-11	METAL CHIP	8.2K	0.50%	1/1044
R1176 1-216-049-00 N	METAL GLAZE	IK	5%	1/10W		D1220	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R1177 1-216-001-00 M	AETAL GLAZE	10	5%	1/10W				METAL CHIP	47K	0.50%	
R1177 1-216-001-00 N				1/10W	- 1			METAL GLAZE		5%	
R1179 1-216-025-00 N				1/10W				METAL CHIP	56K	0.50%	
R1180 1-216-049-00 N				1/10W		R1243	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R1181 1-249-407-11 C			5%	1/4W							
								METAL GLAZE			1/10W
R1182 1-216-041-00 N	METAL GLAZE 4			1/10W				METAL GLAZE			1/10W
R1183 1-216-663-11 N				1/10W				METAL GLAZE			1/10W
R1184 1-208-784-11 N				1/10W				METAL GLAZE			1/10W
R1185 1-208-784-11 N				1/10W		H1248	1-216-065-00	METAL GLAZE	4./K	5%	1/10W
R1186 1-216-615-11 N	METAL CHIP	33	0.50%	1/10W		D1240	1-216-090-00	METAL GLAZE	47K	5%	1/10W
R1187 1-216-615-11 N	ACTAL CHID /	33	n 50%	1/10W				METAL GLAZE			1/10W
R1188 1-249-389-11 (4.7		1/4W	F			METAL GLAZE			1/10W
R1189 1-249-389-11 (4.7		1/4W				METAL GLAZE			1/10W
R1190 1-249-421-11 (2.2K		1/4W				METAL GLAZE		5%	1/10W
R1191 1-249-421-11 (2.2K	5%	1/4W							
								METAL GLAZE			1/10W
R1192 1-216-073-00 M				1/10W				METAL GLAZE			1/10W
R1193 1-216-049-00 M				1/10W				METAL GLAZE			1/10W
R1194 1-216-081-00 M	METAL GLAZE	22K		1/10W) METAL GLAZE) METAL GLAZE			1/10W 1/10W
R1196 1-216-075-00 M	METAL GLAZE	12K		1/10W 1/10W		H1258	1-216-069-00	METAL GLAZE	4/N	376	1/1044
R1197 1-216-075-00 N	METAL GLAZE	12N	5%	171044		B1250	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W
R1198 1-216-089-00 M	METAL GLAZE	47K	5%	1/10W				METAL GLAZE		5%	1/10W
R1199 1-216-065-00 N				1/10W				METAL GLAZE		5%	1/10W
R1200 1-249-385-11 (2.2		1/4W	F			METAL GLAZE		5%	1/10W
R1201 1-216-659-11 N	-	2.2K	0.50%	1/10W		R1263	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1203 1-216-659-11	_	2.2K	0.50%	1/10W							
								METAL GLAZE			1/10W
R1205 1-216-067-00 I				1/10W	- 1			METAL GLAZE		5%	1/10W
R1206 1-216-081-00 N	METAL GLAZE	22K		1/10W				METAL GLAZE		5%	1/10W
R1207 1-216-057-00				1/10W				METAL GLAZE		5%	1/10W
R1208 1-216-081-00 i			5%	1/10W	ŀ	H1268	1-216-295-00	CONDUCTOR,	CHIP		
R1209 1-216-057-00 I	METAL GLAZE	2.2K	5%	1/10W		R1260	1-216-205-00	CONDUCTOR,	CHIP		
R1210 1-216-049-00 I	METAL GLAZE	1K	5%	1/10W				CONDUCTOR,			
R1210 1-216-049-001	CERAMIC CHIP	0.0047MF	10%					CONDUCTOR,			
R1212 1-216-025-00 I			5%	1/10W				METAL CHIP	56K	0.50%	1/10W
R1213 1-216-025-00 I			5%	1/10W				METAL CHIP	27K		1/10W
R1214 1-216-025-00 I			5%	1/10W							
								METAL GLAZE		5%	1/10W
R1218 1-249-389-11 (4.7	5%	1/4W				METAL GLAZE		5%	1/10W
R1219 1-249-389-11 (CARBON	4.7	5%	1/4W				METAL GLAZE		5%	1/10W
R1221 1-216-091-00 I	METAL GLAZE	Sok	5%	1/10W	I	H12//	1-210-085-00	METAL GLAZE	JUN	5%	1/10W



REF.NO.	PART NO.	DESCRIPTION		RE	MARK	REF.NO.	PART NO.	DESCRIPTION		RE	MARK
D4070	1 010 005 00	METAL CLAZE	22K 8	5% 1	1/10W	B1337	1-216-089-00	METAL GLAZE	47K	5%	1/10W
H12/8	1-216-065-00	METAL GLAZE	331 .	70	1/10**			METAL GLAZE			1/10W
D1070	1-260-107-11	CARRON	4.7K 5	5%	_{1/2W}			METAL GLAZE			1/10W
		METAL GLAZE			1/10W			METAL GLAZE			1/10W
		METAL GLAZE			1/10W	-		METAL GLAZE			1/10W
		METAL GLAZE			1/10W						
		METAL GLAZE			1/10W	R1342	1-216-089-00	METAL GLAZE	47K	5%	1/10W
111200	1 210 001 00					R1343	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1284	1-216-651-11	METAL CHIP	1K (0.50% ⁻	1/10W	R1344	1-216-073-00	METAL GLAZE	10K	5%	1/10W
			1K (0.50%	1/10W	R1345	1-216-073-00	METAL GLAZE	10K	5%	1/10W
	1-249-394-11		12	5%	1/4W F	R1346	1-216-073-00	METAL GLAZE	10K	5%	1/10W
		METAL GLAZE	100	5%	1/10W						
		METAL GLAZE		5%	1/10W	R1347	1-216-065-00	METAL GLAZE	4.7K		1/10W
						R1348	1-216-065-00	METAL GLAZE	4.7K		1/10W
		METAL GLAZE		5%	1/8W			METAL GLAZE			1/10W
R1292	1-216-025-00	METAL GLAZE	100	5%	1/10W	R1350	1-216-077-00	METAL GLAZE	15K		1/10W
		METAL GLAZE		5%	1/10W	R1351	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
		METAL GLAZE		5%	1/10W						
R1295	1-216-081-00	METAL GLAZE	22K	5%	1/10W			METAL GLAZE			1/10W
								METAL GLAZE			1/10W
		METAL GLAZE			1/10W			METAL GLAZE			1/10W
		METAL GLAZE			1/10W			METAL GLAZE			1/10W
R1298	1-216-031-00	METAL GLAZE	180		1/10W	R1356	1-216-049-00	METAL GLAZE	1K	5%	1/10W
		METAL GLAZE			1/10W						
R1300	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W			METAL GLAZE			1/10W
				_				METAL GLAZE			1/10W
		METAL GLAZE			1/10W			METAL GLAZE			1/10W
		METAL GLAZE			1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W	R1362	1-216-025-00	METAL GLAZE	100	5%	1/10W
		METAL CHIP			1/10W	B4000	4 040 005 00	METAL OLATE	070	F 0/	4/4014/
R1305	1-208-806-11	METAL CHIP	10K	0.50%	1/10W			METAL GLAZE			1/10W 1/10W
			1014	0.500/	4 /4 0 \ 4 /			METAL GLAZE		5%	1/1044
		METAL CHIP			1/10W			CONDUCTOR, (METAL GLAZE		5%	1/10W
		METAL CHIP			1/10W			CONDUCTOR,		5%	1/1044
		METAL CHIP			1/10W	H130/	1-216-295-00	CONDUCTOR, C	JHIP		
		METAL CHIP			1/10W 1/10W	D1260	1 216 205 00	CONDUCTOR,	CLID		
H1310	1-216-0/3-00	METAL GLAZE	IUN	3%	1/1044			CONDUCTOR,			
D1011	1 216 072 00	METAL GLAZE	10K	5%	1/10W	-		METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W			METAL GLAZE		5%	1/10W
D1312	1-216-073-00	METAL GLAZE	10K		1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		METAL GLAZE			1/10W	R1374	1-216-043-91	METAL GLAZE	560	5%	1/10W
111010	1 210 020 00	·			.,	R1375	1-216-043-91	METAL GLAZE	560	5%	1/10W
R1316	1-216-025-00	METAL GLAZE	100	5%	1/10W	R1376	1-216-037-00	METAL GLAZE	330	5%	1/10W
		METAL GLAZE		5%	1/10W	R1377	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1318	1-216-025-00	METAL GLAZE	100	5%	1/10W	R1378	1-216-025-00	METAL GLAZE	100	5%	1/10W
		METAL GLAZE		5%	1/10W						
		METAL GLAZE		5%	1/10W			METAL GLAZE		5%	1/10W
								METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W	1		METAL GLAZE		5%	1/10W
		METAL GLAZE			1/10W	I		METAL GLAZE		5%	1/10W
		METAL GLAZE		5%	1/10W	R1383	1-216-017-71	METAL GLAZE	47	5%	1/10W
		METAL GLAZE		5%	1/10W						
R1325	1-216-133-00	METAL GLAZE	3.3M	5%	1/10W			METAL GLAZE		5%	1/10W
								METAL GLAZE		5%	1/10W
		D METAL GLAZE			1/10W			METAL GLAZE		5%	1/10W
		1 METAL GLAZE		5%	1/10W	1		METAL GLAZE		5%	1/10W
		O CONDUCTOR,				R1388	1-216-049-00	METAL GLAZE	ıK	5%	1/10W
		O CONDUCTOR,							4	5 0,	4 (4 5)
R1330	1-216-677-1	1 METAL CHIP	12K	0.50%	1/10W	l .		METAL GLAZE		5% 5%	1/10W
_								METAL GLAZE		5% 5%	1/10W
		1 METAL CHIP			1/10W			METAL GLAZE		5% 5%	1/10W
		1 METAL CHIP			1/10W			METAL GLAZE		5% 5%	1/10W
		0 METAL GLAZE			1/10W	H1404	1-216-069-00	METAL GLAZE	70.0	5%	1/10W
		0 METAL GLAZE			1/10W	B1405	1-016 065 00	METAL GLAZE	4 7K	5%	1/10W
H1335	1-216-081-0	0 METAL GLAZE	22N	5%	1/10W	I 1405	1-210-000-00	WIL IAL GLAZE	7.71	J /0	17 10 11

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.



REF.NO. PART NO. DESCRIPTION	REMARK	REF.NO. PART NO. DESCRIPTION	REMARK
R1406 1-216-073-00 METAL GLAZE 10K	5% 1/10W	R1491 1-249-411-11 CARBON 330	5% 1/4W
R1408 1-216-073-00 METAL GLAZE 10K	5% 1/10W	R1494 1-216-295-00 CONDUCTOR, CHIP	070 17411
R1409 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1495 1-216-295-00 CONDUCTOR, CHIP	
R1410 1-216-065-00 METAL GLAZE 4.7K	5% 1/10W	· · · · · · · · · · · · · · · · · · ·	
		R1498 1-216-073-00 METAL GLAZE 10K	5% 1/10W
R1412 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1499 1-216-041-00 METAL GLAZE 470	5% 1/10W
R1413 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1503 1-216-065-00 METAL GLAZE 4.7K	5% 1/10W
R1414 1-216-033-00 METAL GLAZE 220	5% 1/10 W	R1504 1-216-089-00 METAL GLAZE 47K	5% 1/10W
R1415 1-216-049-00 METAL GLAZE 1K	5% 1/ 10W	R1505 1-216-073-00 METAL GLAZE 10K	5% 1/10W
R1416 1-216-061-00 METAL GLAZE 3.3K	5% 1/10 W		
		R1506 1-216-081-00 METAL GLAZE 22K	5% 1/10W
R1417 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1507 1-216-033-00 METAL GLAZE 220	5% 1/10W
R1418 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1508 1-216-295-00 CONDUCTOR, CHIP	
R1419 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1509 1-216-295-00 CONDUCTOR, CHIP	
R1420 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1512 1-216-295-00 CONDUCTOR, CHIP	
R1421 1-216-073-00 METAL GLAZE 10K	5% 1/10 W	DASAG A DAG OOF OO CONDUCTOR CLUB	
D1400 4 040 004 00 METAL OLATE 00%	E0/ 4/401AI	R1513 1-216-295-00 CONDUCTOR, CHIP	
R1422 1-216-081-00 METAL GLAZE 22K R1423 1-216-091-00 METAL GLAZE 56K	5% 1/10W 5% 1/10W	R1514 1-216-295-00 CONDUCTOR, CHIP R1515 1-216-295-00 CONDUCTOR, CHIP	
R1424 1-216-081-00 METAL GLAZE 36K	5% 1/10 W 5% 1/10 W	R1516 1-216-033-00 METAL GLAZE 220	5% 1/10W
R1425 1-216-069-00 METAL GLAZE 22K	5% 1/10 W	R1517 1-216-295-00 CONDUCTOR, CHIP	3/8 1/1044
R1426 1-216-061-00 METAL GLAZE 6.6K	5% 1/10 W 5% 1/10 W	H1317 1-210-293-00 CONDUCTOR, CHIF	
111420 1-210-001-00 METAL GLAZE 0.5K	378 171011	R1518 1-216-295-00 CONDUCTOR, CHIP	
R1427 1-216-073-00 METAL GLAZE 10K	5% 1/10W	R1519 1-249-394-11 CARBON 12	5% 1/4W F
R1429 1-216-041-00 METAL GLAZE 470	5% 1/10W	R1520 1-216-025-00 METAL GLAZE 100	5% 1/10W
R1430 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W	R1521 1-216-033-00 METAL GLAZE 220	5% 1/10W
R1431 1-216-025-00 METAL GLAZE 100	5% 1/10W	R1522 1-216-081-00 METAL GLAZE 22K	5% 1/10W
R1432 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W		
		R1523 1-216-081-00 METAL GLAZE 22K	5% 1/10W
R1433 1-216-049-00 METAL GLAZE 1K	5% 1/10 W	R1524 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W
R1434 1-216-063-91 METAL GLAZE 3.9K	5% 1/10W	R1525 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W
R1435 1-216-065-00 METAL GLAZE 4.7K	5% 1/10 W	R1526 1-216-073-00 METAL GLAZE 10K	5% 1/10W
R1436 1-216-065-00 METAL GLAZE 4.7K	5% 1/10 W	R1527 1-216-025-00 METAL GLAZE 100	5% 1/10W
R1438 1-216-295-00 CONDUCTOR, CHIP			
		R1528 1-216-089-00 METAL GLAZE 47K	5% 1/10W
R1440 1-216-065-00 METAL GLAZE 4.7K	5% 1/10W	R1529 1-216-065-00 METAL GLAZE 4.7K	5% 1/10W
R1443 1-216-049-00 METAL GLAZE 1K	5% 1/10W	R1531 1-216-295-00 CONDUCTOR, CHIP	
R1444 1-216-041-00 METAL GLAZE 470	5% 1/10W	R1532 1-216-295-00 CONDUCTOR, CHIP	F0/ 4/41M
R1445 1-216-041-00 METAL GLAZE 470	5% 1/10W	R1533 1-249-425-11 CARBON 4.7K	5% 1/4W
R1446 1-216-025-00 METAL GLAZE 100	5% 1/10 W	R1534 1-249-425-11 CARBON 4,7K	5% 1/4W
R1447 1-216-295-00 CONDUCTOR, CHIP		R1535 1-249-425-11 CARBON 4.7K	5% 1/4W
R1447 1-216-295-00 CONDUCTOR, Chir R1448 1-216-049-00 METAL GLAZE 1K	5% 1/10W	A1333 1-249-423-11 OANBOIN 4.7K	576 174VV
R1449 1-216-049-00 METAL GLAZE 1K	5% 1/10W		
R1450 1-216-037-00 METAL GLAZE 330	5% 1/10W	<test pin=""></test>	
R1451 1-216-093-00 METAL GLAZE 68K	5% 1/10W		
		TP1001 1-535-877-22 CHIP, CHECKER	
R1453 1-216-025-00 METAL GLAZE 100	5% 1/10W	TP1002 1-535-877-22 CHIP, CHECKER	
R1454 1-216-041-00 METAL GLAZE 470	5% 1/10W	TP1003 1-535-877-22 CHIP, CHECKER	
R1456 1-216-049-00 METAL GLAZE 1K	5% 1/10W	TP1004 1-537-864-11 PIN, POST	
R1458 1-216-295-00 CONDUCTOR, CHIP		TP1005 1-537-864-11 PIN, POST	
R1461 1-216-053-00 METAL GLAZE 1.5K	5% 1/10W		
		TP1006 1-537-864-11 PIN, POST	
R1463 1-216-055-00 METAL GLAZE 1.8K	5% 1/10W		
R1464 1-216-017-71 METAL GLAZE 47	5% 1/10W		
R1465 1-216-647-11 METAL CHIP 680	0.50%1/10W	<tuner></tuner>	
R1466 1-216-043-91 METAL GLAZE 560	5% 1/10W		200000000000000000000000000000000000000
R1467 1-216-073-00 METAL GLAZE 10K	5% 1/10W	TU1001≜1-693-340-21 TUNER/VIF	
D4400 4 040 000 00 1000 00 1000 00 1000 00 1000 00	F0/ 1/1511	TU1002∆1-693-340-21 TUNER/VIF	
R1468 1-216-069-00 METAL GLAZE 6.8K	5% 1/10W		
R1469 1-208-774-11 METAL CHIP 470	0.50%1/10W	COVCTAL	
R1470 1-216-049-00 METAL GLAZE 1K	5% 1/10W	<crystal></crystal>	
R1484 1-216-295-00 CONDUCTOR, CHIP	E0/ 4/40\A/	V1001 1 577 000 11 VIDDATOD OFFIANIO	
R1487 1-216-073-00 METAL GLAZE 10K	5% 1/10W	X1001 1-577-082-11 VIBRATOR, CERAMIC	
R1488 1-216-069-00 METAL GLAZE 6.8K	5% 1/10W	X1002 1-760-551-21 VIBRATOR, CERAMIC X1101 1-579-689-21 VIBRATOR, CRYSTAL	
R1489 1-216-627-11 METAL CHIP 100	0.50%1/10W	ATTO TO SOURT VIBILATOR, OTTO THE	
.30 TETO SET TO METITE STIME	0.00,01,1011	I ************************************	*******



The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO). PART NO.	DESCRIPTION	l	R	EMARK	REF.NO	. PART NO.	DESCRIPTION	1	R	EMAR	<u>K_</u>
	* A-1311-494-A	G BOARD, CON				D611	8-719-911-19	DIODE 1SS119	-25			
		000501	a. B. G			D612 ₫	8-719-510-63	DIODE D4SB60	L			
	4-382-854-11	SCREW (M3X10 (D605, Q601, Q		-)			<ferrite be<="" td=""><td>EAD></td><td></td><td></td><td></td><td></td></ferrite>	EAD>				
	<capacitoi< td=""><td>R></td><td></td><td></td><td></td><td></td><td></td><td>FERRITE BEAD</td><td></td><td></td><td>0.45U 0.45U</td><td></td></capacitoi<>	R>						FERRITE BEAD			0.45U 0.45U	
C601 C602 C603 C604	1-164-625-11 1-164-625-11 1-136-173-00	CERAMIC FILM	680pF 680pF 0.47MF	10% 10% 5%	400V 500V 500V 50V		<ic></ic>					
C605	1-136-171-00	FILM	0.33MF	5%	50V	IC601	8-759-908-15	IC TL431CLP				
C606 C607 C608 C609		FILM FILM	1000pF 0.47MF 0.33MF 0.022MF	10% 5% 5% 5%	500V 50V 50V 630V	L602	<coil></coil>	INDUCTOR	3.3UH			
C610	1-126-953-11	ELECT	2200MF	20%	35V	L603 L604	1-408-409-00 1-412-519-11	INDUCTOR INDUCTOR	10UH 3.3UH			
C613	1-126-964-11 1-126-942-61 1-126-964-11 1-104-664-11	ELECT ELECT	10MF 1000MF 10MF 47MF	20% 20% 20% 20%	25V 50V	L605 L606	1-403-588-11 1-412-519-11	•	22UH 3.3UH			
C615	1-102-129-00		0.01MF	10%			<transisto< td=""><td>)R></td><td></td><td></td><td></td><td></td></transisto<>)R>				
C617 C618 C619	1-126-937-11 1-126-937-11	CERAMIC ELECT ELECT	0.01MF 0.01MF 4700MF 4700MF	10% 20% 20%	500V 16V 16V		8-729-026-69	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC4833-M	1		
C620	1-104-664-11	ELECT	47MF	20%			<resistor></resistor>	•				
C621 C622 C623 C624 C627	1-102-129-00	ELECT CERAMIC ELECT	0.01MF 47MF 0.01MF 1MF 0.022MF	10% 20% 10% 20% 5%	25V 50V 50V 50V	R601 R602 R603 R604 R605	1-247-891-00 1-247-891-00 1-247-881-00 1-247-881-00 1-249-389-11	CARBON CARBON CARBON	330K 330K 120K 120K 4.7	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
C628 C629 C630	1-126-967-11	ELECT	0.047MF 47MF 0.01MF	5% 20%	50V 50V 500V	R606 R607 R608 R609 R610	1-249-393-11 1-247-881-00 1-247-881-00 1-249-389-11 1-249-393-11	CARBON CARBON CARBON	10 120K 120K 4.7 10	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
												_
CN600 CN600 CN600	2	I PIN, CONNECT I PIN, CONNECT I PLUG, CONNE I PLUG, CONNE I PLUG, CONNE	OR (PC BC CTOR 3P CTOR 6P			R611 R617 R618 R619 R621	1-216-370-11 1-202-933-61 1-215-447-00 1-249-435-11 1-215-432-00	METAL CARBON	1.2 0.1 12K 33K 3K	5% 10% 1% 5% 1%	2W 1/2W 1/4W 1/4W 1/4W	F
CN600		I PLUG, CONNE	CTOR 7P			R623 R624	1-249-417-11 1-247-807-31 1-249-425-11 1-249-418-11	CARBON CARBON	1K 100 4.7K 1.2K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
	<diode></diode>					1023	17437410711	OARBON	1.41\	J /0	1/ -+ V V	
D602 D603 D604	8-719-911-19 8-719-052-92 8-719-312-47	DIODE 1SS119 DIODE 1SS119 DIODE D10SBS DIODE RBA-40 DIODE D10SBS	-25 64F 6B					MER> TRANSFORME TRANSFORME				
D607 D608	8-719-911-19 8-719-911-19	1 DIODE RD15E3 9 DIODE 1SS119 9 DIODE 1SS119 9 DIODE 1SS119)-25)-25			*******	******	*******	*****	****	******	***

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.



REF.NO. PART NO.	DESCRIPTION	R	EMARK	REF.NO.	PART NO.	DESCRIPTION	<u> </u>	R	EMARK
* Δ-1335-072-A	C BOARD, COMPLETE			C5201	1-165-319-11	CERAMIC CHIP	0.1MF		50V
7 1000 07E 7	*******					CERAMIC CHIP			50V
				C5203	1-104-664-11	ELECT	47MF	20%	25V
				C5204	1-165-319-11	CERAMIC CHIP	0.1MF		50V
				C5205	1-126-967-11	ELECT	47MF	20%	10V
<capacitor< td=""><td>₹></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></capacitor<>	₹>								
				C5206	1-126-967-11	ELECT	47MF	20%	
	CERAMIC CHIP 0.01MF	10%				CERAMIC CHIP		2001	50V
C5002 1-126-967-11		20%		1	1-104-664-11		47MF	20% 20%	
	CERAMIC CHIP 100pF				1-104-664-11		47MF	20%	
	CERAMIC CHIP 0.1MF	10%		C5212	1-165-319-11	CERAMIC CHIP	U. HMF		50V
C5005 1-126-962-11	ELECT 3.3MF	20%	50 V	CE010	1 165 210 11	CERAMIC CHIP	O IME		50V
05000 4 404 400 44	CERAMIC CHIP 0.0033MI	10%	50\/		1-103-319-11		47MF	20%	
		5%	50V 50V			CERAMIC CHIP		20 /6	50V
	CERAMIC CHIP 30pF	10%		1		CERAMIC CHIP			50V
	CERAMIC CHIP 0.001MF	10%				CERAMIC CHIP			50V
	CERAMIC CHIP 0.01MF CERAMIC CHIP 47pF	5%	50 V 50 V	C5217	1-100-319-11	CERAWIC CHIP	O. HVII		30 V
C5010 1-163-109-00	CERAINIC CHIP 4/PF	3 /6	JU V	C5218	1-165-319-11	CERAMIC CHIP	0 1MF		50V
OE011 1 102 000 11	CERAMIC CHIP 0.001MF	10%	501/			CERAMIC CHIP			50V
C5011 1-163-009-11	CERAMIC CHIP 0.001MF	5%	50V			CERAMIC CHIP			50 V
	CERAMIC CHIP 100PF	10%				CERAMIC CHIP			50V
		20%				CERAMIC CHIP			50 V
C5014 1-126-962-11	ELECT 3.3MF CERAMIC CHIP 0.0033MI			05222	1-100-319-11	CENAMIC CHIP	O. HVII		30 V
C5015 1-164-182-11	CERAMIC CHIP 0.0033MI	10 /6	30 V	C5223	1-165-319-11	CERAMIC CHIP	0.1MF		50V
05046 4 460 400 00	CERAMIC CHIP 43pF	5%	50V		1-126-967-11		47MF	20%	
C5016 1-163-108-00	CERAMIC CHIP 43pF	10%			1-126-967-11		47MF	20%	-
C5017 1-163-009-11	CERAMIC CHIP 0.01MF	10%				CERAMIC CHIP		2070	50V
05018 1-164-232-11	CERAMIC CHIP 0.0033MI			C5227	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5019 1-164-162-11 C5020 1-126-962-11		20%		03227	1 103 313 11	OLI I/ IIVIIO OI III	0.11411		001
C3020 1-120-902-11	ELEC 1 3.5IVII	20 /6	30 v	C5228	1-104-664-11	FLECT	47MF	20%	25V
C5021 1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V			TANTAL. CHIP		20%	
	CERAMIC CHIP 100pF	5%	50V			TANTAL. CHIP		20%	
	CERAMIC CHIP 0.01MF	10%				TANTAL. CHIP		20%	
	CERAMIC CHIP 0.01MF	10%				TANTAL. CHIP		20%	
	CERAMIC CHIP 0.01MF		50V	00202		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_0,0	
03020 1-104-202 11	OZI I/MINIO OI III OIO IIII	1070		C5233	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5026 1-126-967-11	ELECT 47MF	20%	10V		1-126-964-11		10MF	20%	50V
	CERAMIC CHIP 0.01MF		50V	C5235	1-104-664-11	ELECT	47MF	20%	25V
C5028 1-164-232-11	CERAMIC CHIP 0.01MF		50V	C5236	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5029 1-165-319-11	CERAMIC CHIP 0.1MF		50V		1-126-967-11		47MF	20%	16V
C5030 1-104-664-11		20%	25V	1					
				C5238	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5039 1-104-664-11	I ELECT 47MF	20%	25V	C5241	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5040 1-163-251-11	CERAMIC CHIP 100pF	5%	50V	C5242	1-165-319-11	I CERAMIC CHIF	0.1MF		50V
C5041 1-163-251-11	CERAMIC CHIP 100pF	5%	50V	C5243	1-126-967-1	LELECT	47MF	20%	16V
C5042 1-163-251-11	CERAMIC CHIP 100pF	5%	50V	C5244	1-163-031-1	I CERAMIC CHIP	0.01MF		50V
C5043 1-163-251-11	CERAMIC CHIP 100pF	5%	50V						
						CERAMIC CHIP			50V
C5044 1-163-251-11	CERAMIC CHIP 100pF	5%	50V			CERAMIC CHIE			50V
C5045 1-163-251-11	I CERAMIC CHIP 100pF	5%	50V			CERAMIC CHIE			50V
C5046 1-163-251-11	CERAMIC CHIP 100pF	5%	50V		1-126-967-1		47MF	20%	16V
C5047 1-163-251-11	I CERAMIC CHIP 100pF	5%	50V	C5251	1-165-319-1	I CERAMIC CHIF	9 0.1MF		50V
C5048 1-163-251-1	I CERAMIC CHIP 100pF	5%	50V						
					1-126-967-1		47MF	20%	16V
	CERAMIC CHIP 100pF	5%	50V	1		CERAMIC CHIP			50V
	CERAMIC CHIP 100pF	5%	50V			CERAMIC CHIE			50V
C5051 1-163-125-00	CERAMIC CHIP 220pF	5%	50V	l-		CERAMIC CHIP			50V
C5054 1-163-125-00	CERAMIC CHIP 220pF	5%	50V	C5412	1-165-319-1	1 CERAMIC CHIF	0.1MF		50V
C5055 1-163-125-00	CERAMIC CHIP 220pF	5%	50V	05	4 404 654 :	FLECT	471-	000/	0517
0	- OFFILMO OUE	F	E014		1-104-664-1		47MF	20%	25V
C5056 1-163-125-00	CERAMIC CHIP 220pF	5%	50V			1 CERAMIC CHIE			50V
C5057 1-163-125-00	CERAMIC CHIP 220pF	5%	50V	1		1 CERAMIC CHIE			50V
C5058 1-163-125-00	CERAMIC CHIP 220pF	5%	50V			1 CERAMIC CHIP			50V
C5059 1-163-125-00	CERAMIC CHIP 220pF	5%	50V	C5417	1-165-319-1	1 CERAMIC CHIP	- U.1MF		50V
C5073 1-164-232-1	1 CERAMIC CHIP 0.01MF	10%	50V	05440	1 105 010 1	CEDALAO OUS	20414		501/
				J C5418	1-105-319-1	1 CERAMIC CHIF	U. IMP		50V



REF.NO. PART NO.	DESCRIPTION		R	EMARK	REF.NO.	PART NO.	DESCRIPTION	ł	RI	EMARK
C5419 1-165-319-11	CERAMIC CHIP	0.1MF		50V	C5641	1-126-967-11	FLECT	47MF 20	1%	16V
C5420 1-165-319-11				50V			CERAMIC CHIE		,,0	50V
C5421 1-165-319-11				50V			CERAMIC CHIP			50V
C5422 1-165-319-11				50V	00010	1 100 010 11	OEI II IIIII O OI III	0.11411		30 v
	02				C5644	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5423 1-126-967-11	ELECT	47MF	20%	10V	••••		02.0.000	0.114.11		00 •
C5424 1-126-967-11		47MF	20%							
C5425 1-165-319-11			2070	50V		<connecto< td=""><td>)B\</td><td></td><td></td><td></td></connecto<>)B\			
C5426 1-165-319-11				50V		100/11/20/0				
C5427 1-104-664-11			20%		CN5001	1-691-093-21	CONNECTOR,	FFC (ZIF) 20P		
							CONNECTOR.			
C5428 1-107-689-21	TANTAL CHIP	1MF	20%	35V			CONNECTOR,			
C5429 1-107-689-21			20%				PLUG, CONNE			
C5430 1-107-689-21	TANTAL, CHIP	1MF	20%				PLUG, CONNE			
C5431 1-107-689-21			20%				,			
C5432 1-165-319-11	CERAMIC CHIP			50V						
						<diode></diode>				
C5433 1-126-964-11	ELECT	10MF	20%	50V						
C5434 1-104-664-11	ELECT	47MF	20%	25V	D5001	8-719-002-81	DIODE 1T363			
C5435 1-165-319-11	CERAMIC CHIP	0.1MF		50V	D5002	8-719-002-81	DIODE 1T363			
C5436 1-126-967-11	ELECT	47MF	20%	16V	D5003	8-719-002-81	DIODE 1T363			
C5437 1-165-319-11	CERAMIC CHIP	0.1MF		50V	D5034	8-719-158-07	DIODE RD4.7SI	3		
					D5035	8-719-158-07	DIODE RD4.7SI	3		
C5440 1-165-319-11	CERAMIC CHIP	0.1MF		50V						
C5441 1-165-319-11	CERAMIC CHIP	0.1MF		50V	D5040	8-719-404-49	DIODE MA111			
C5442 1-165-319-11	CERAMIC CHIP	0.1 MF		50V	D5041	8-719-404-49	DIODE MA111			
C5601 1-126-967-11		47MF	20%	16V			DIODE MA729			
C5602 1-165-319-11	CERAMIC CHIP	0.1MF		50V	D5044	8-719-404-49	DIODE MA111			
					D5045	8-719-404-49	DIODE MA111			
C5605 1-165-319-11				50V						
C5608 1-165-319-11				50V			DIODE MA111			
C5609 1-165-319-11				50V			DIODE MA111			
C5610 1-104-664-11		47MF	20%				DIODE MA111			
C5611 1-165-319-11	CERAMIC CHIP	0.1MF		50V			DIODE MA111			
CEC10 1 105 010 11	CEDAMIC CUID	0.4145		50)/	D5201	8-719-404-49	DIODE MA111			
C5612 1-165-319-11				50V	DEGGG	0.740.004.70	DIODE 400404			
C5613 1-165-319-11 C5614 1-165-319-11				50V 50V			DIODE 1SS184			
C5615 1-165-319-11				50V 50V			DIODE MA111			
C5616 1-165-319-11				50V 50V			DIODE MA111 DIODE 1SS184			
03010 1-103-319-11	OLIMNIO OI III	O. HVII		304			DIODE MA111			
C5617 1-165-319-11	CERAMIC CHIP	0.1MF		50V	D3414	0-713-404-43	DIODE WATTI			
C5618 1-165-319-11				50V	D5601	8-719-404-49	DIODE MA111			
C5619 1-165-319-11				50V			DIODE 1SS184			
C5620 1-126-967-11		47MF	20%				DIODE MA111			
C5621 1-126-967-11		47MF	20%							
• •			-							
C5622 1-165-319-11	CERAMIC CHIP	0.1 MF		50V		<ferrite be<="" td=""><td>EAD></td><td></td><td></td><td></td></ferrite>	EAD>			
C5623 1-165-319-11	CERAMIC CHIP	0.1 MF		50V						
C5624 1-104-664-11	ELECT	47MF	20%	25V		1-543-813-21				
C5625 1-107-689-21	TANTAL. CHIP	1MF	20%	35V	FB5002	1-543-813-21	FILTER, EMI			
C5626 1-107-689-21	TANTAL. CHIP	1MF	20%	35V	FB5003	1-543-813-21	FILTER, EMI			
					FB5004	1-543-813-21	FILTER, EMI			
C5627 1-107-689-21			20%		FB5005	1-543-813-21	FILTER, EMI			
C5628 1-107-689-21			20%							
C5629 1-165-319-11				50V		1-543-813-21				
C5630 1-126-964-11			20%			1-543-813-21	•			
C5631 1-104-664-11	ELECT	47MF	20%	25V		1-543-813-21				
OF000 4 455 5 15	0554440 000	0.4147		50)		1-412-364-11		0UH		
C5632 1-165-319-11				50V	FB5014	1-412-364-11	INDUCTOR	0UH		
C5633 1-126-967-11			20%		FB		INDUISTO -	01.11.1		
C5634 1-126-967-11			20%			1-412-364-11		0UH		
C5635 1-165-319-11				50V		1-412-364-11		0UH		
C5636 1-126-967-11	ELECT	47MF	20%	16V		1-412-364-11		0UH		
05697 1 105 010 11	CEDAMIC OLUB	0.1845				1-412-364-11		0UH		
C5637 1-165-319-11 C5640 1-165-319-11				50V	FB5019	1-412-364-11	INDUCTOR	0UH		
000-0 1-100-019-11	CENAIVIIC CHIP	U. HVIF		50V						



REF.NO. PART NO. DESCRIPTION REMA	RK REF.NO. PART NO. DESCRIPTION REMARK
FB5025 1-543-813-21 FILTER, EMI	Q5203 8-729-216-22 TRANSISTOR 2SA1162-G
FB5026 1-543-813-21 FILTER, EMI	Q5204 8-729-920-74 TRANSISTOR 2SC2412K-QR
FB5201 1-412-364-11 INDUCTOR 0UH	Q5205 8-729-920-74 TRANSISTOR 2SC2412K-QR
FB5401 1-412-364-11 INDUCTOR 0UH	Q5206 8-729-216-22 TRANSISTOR 2SA1162-G
FB5601 1-412-364-11 INDUCTOR 0UH	Q3200 0-723-210-22 ITIANSISTON 25ATT02-G
123001 1 412 304 11 1142 301 311	Q5207 8-729-216-22 TRANSISTOR 2SA1162-G
FB5602 1-412-364-11 INDUCTOR 0UH	Q5209 8-729-920-74 TRANSISTOR 2SC2412K-QR
150002 1 412 004 11 1115 001 011	Q5210 8-729-920-74 TRANSISTOR 2SC2412K-QR
	Q5214 8-729-216-22 TRANSISTOR 2SA1162-G
<filter></filter>	Q5215 8-729-920-74 TRANSISTOR 2SC2412K-QR
STELLIS .	
FL5001 1-233-539-21 FILTER, EMI	Q5216 8-729-920-74 TRANSISTOR 2SC2412K-QR
FL5002 1-233-539-21 FILTER, EMI	Q5217 8-729-216-22 TRANSISTOR 2SA1162-G
FL5003 1-239-400-11 FILTER, CHIP EMI	Q5218 8-729-216-22 TRANSISTOR 2SA1162-G
FL5004 1-239-400-11 FILTER, CHIP EMI	Q5219 8-729-920-74 TRANSISTOR 2SC2412K-QR
FL5005 1-239-400-11 FILTER, CHIP EMI	Q5220 8-729-920-74 TRANSISTOR 2SC2412K-QR
FL50061-239-400-11 FILTER, CHIP EMI	Q5221 8-729-216-22 TRANSISTOR 2SA1162-G
FL5007 1-239-400-11 FILTER, CHIP EMI	Q5222 8-729-216-22 TRANSISTOR 2SA1162-G
FL5008 1-239-400-11 FILTER, CHIP EMI	Q5223 8-729-920-74 TRANSISTOR 2SC2412K-QR
FL5009 1-239-400-11 FILTER, CHIP EMI	Q5224 8-729-920-74 TRANSISTOR 2SC2412K-QR
FL5010 1-239-400-11 FILTER, CHIP EMI	Q5225 8-729-216-22 TRANSISTOR 2SA1162-G
	Orono o 700 040 00 TRANSISTOR - 5 1 1 1 - 5
FL5011 1-233-539-21 FILTER, EMI	Q5226 8-729-216-22 TRANSISTOR 2SA1162-G
FL50121-233-513-21 FILTER, EMI	Q5227 8-729-920-74 TRANSISTOR 2SC2412K-QR
FL5013 1-233-513-21 FILTER, EMI	Q5228 8-729-920-74 TRANSISTOR 2SC2412K-QR
FL5014 1-233-513-21 FILTER, EMI	Q5229 8-729-216-22 TRANSISTOR 2SA1162-G
FL5015 1-233-513-21 FILTER, EMI	Q5234 8-729-920-74 TRANSISTOR 2SC2412K-QR
TI TO LO LO DO TOO OL TIL TED TAN	OFFICE O 700 040 00 TRANSISTOR 0044400 0
FL5016 1-233-539-21 FILTER, EMI	Q5235 8-729-216-22 TRANSISTOR 2SA1162-G
FL5017 1-233-539-21 FILTER, EMI	Q5237 8-729-920-74 TRANSISTOR 2SC2412K-QR
	Q5238 8-729-216-22 TRANSISTOR 2SA1162-G
10	Q5403 8-729-216-22 TRANSISTOR 2SA1162-G
<ic></ic>	Q5404 8-729-920-74 TRANSISTOR 2SC2412K-QR
IC5002 8-759-103-09 IC UPC4082G2	Q5405 8-729-920-74 TRANSISTOR 2SC2412K-QR
IC5003 8-759-103-09 IC UPC4082G2	Q5406 8-729-216-22 TRANSISTOR 2SA1162-G
IC5004 8-752-375-83 IC CXD2412AQ	Q5407 8-729-216-22 TRANSISTOR 2SA1162-G
IC5005 8-759-324-92 IC PQ15RF16	Q5409 8-729-920-74 TRANSISTOR 2SC2412K-QR
4-382-854-01 SCREW (M3X8), P, SW (+) ; IC5005	Q5415 8-729-216-22 TRANSISTOR 2SA1162-G
(.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
IC5006 8-759-098-24 IC PQ30RV11	Q5416 8-729-920-74 TRANSISTOR 2SC2412K-QR
IC5007 8-759-701-56 IC NJM78M05FA	Q5417 8-729-920-74 TRANSISTOR 2SC2412K-QR
4-382-854-01 SCREW (M3X8), P, SW (+); IC5007	Q5418 8-729-216-22 TRANSISTOR 2SA1162-G
IC5201 8-752-071-58 IC CXA1819Q	Q5419 8-729-216-22 TRANSISTOR 2SA1162-G
IC5401 8-752-071-58 IC CXA1819Q	Q5420 8-729-920-74 TRANSISTOR 2SC2412K-QR
IC5601 8-752-071-58 IC CXA1819Q	Q5421 8-729-920-74 TRANSISTOR 2SC2412K-QR
IC5602 8-752-058-68 IC CXA1315M	Q5422 8-729-216-22 TRANSISTOR 2SA1162-G
	Q5423 8-729-216-22 TRANSISTOR 2SA1162-G
	Q5424 8-729-920-74 TRANSISTOR 2SC2412K-QR
<coil></coil>	Q5425 8-729-920-74 TRANSISTOR 2SC2412K-QR
1 5004 - 1 440 400 44 PIRLIOTOR	OF 400 0 700 040 00 TRANSISTOR 004 1100 0
L5001 1-410-466-41 INDUCTOR 4.7UH	Q5426 8-729-216-22 TRANSISTOR 2SA1162-G
L5002 1-427-791-21 TRANSFORMER, DETECTOR	Q5427 8-729-216-22 TRANSISTOR 2SA1162-G
L5003 1-427-790-21 TRANSFORMER, DETECTOR	Q5428 8-729-920-74 TRANSISTOR 2SC2412K-QR
L5004 1-427-792-21 TRANSFORMER, DETECTOR	Q5429 8-729-920-74 TRANSISTOR 2SC2412K-QR
L5005 1-410-470-11 INDUCTOR 10UH	Q5430 8-729-216-22 TRANSISTOR 2SA1162-G
L5202 1-410-470-11 INDUCTOR 10UH	Q5433 8-729-216-22 TRANSISTOR 2SA1162-G
L5601 1-410-470-11 INDUCTOR 10UH L5602 1-410-470-11 INDUCTOR 10UH	Q5435 8-729-920-74 TRANSISTOR 2SC2412K-QR Q5603 8-729-216-22 TRANSISTOR 2SA1162-G
1000Z -410-4/0-11 INDOCTOR 1000	Q5604 8-729-920-74 TRANSISTOR 2SC1162-G
	Q5605 8-729-920-74 TRANSISTOR 2SC2412K-QR
<transistor></transistor>	QUUU U 125 520-14 INANGISTOR 2002412N-QR
CHARGOTOTO	Q5606 8-729-216-22 TRANSISTOR 2SA1162-G
Q5001 8-729-920-21 TRANSISTOR DTC314TK-T-146	Q5607 8-729-216-22 TRANSISTOR 2SA1162-G
	1



REF.NO.	PART NO.	DESCRIPTION	R	EMARK	REF.NO.	. PART NO.	DESCRIPTION	٧.	R	EMARK
Q5609	8-729-920-74	TRANSISTOR 2SC2412K-Q	R		R5057	1-216-295-00	CONDUCTOR,	CHIP		
		TRANSISTOR 2SA1162-G								
Q5615	8-729-920-74	TRANSISTOR 2SC2412K-Q	R				CONDUCTOR,			
			_				CONDUCTOR,			
		TRANSISTOR 2SC2412K-Q	н				CONDUCTOR,		E0/	1/1014
		TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G					METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
		TRANSISTOR 2SC2412K-Q	D		H0004	1-200-045-11	METAL GLAZE	HVI	5%	1/1044
		TRANSISTOR 2SC2412K-Q			R5065	1-208-845-11	METAL GLAZE	11/	5%	1/10W
Q3020	0-723-320-74	MANUSTON 2002-1210 Q	• •				METAL GLAZE		5%	1/10W
Q5621	8-729-216-22	TRANSISTOR 2SA1162-G					METAL GLAZE		5%	1/10W
		TRANSISTOR 2SA1162-G					METAL GLAZE		5%	1/10W
Q5623	8-729-920-74	TRANSISTOR 2SC2412K-Q	R		R5073	1-216-019-00	METAL GLAZE	56	5%	1/10W
Q5624	8-729-920-74	TRANSISTOR 2SC2412K-Q	R							
Q5625	8-729-216-22	TRANSISTOR 2SA1162-G			R5074	1-216-019-00	METAL GLAZE	56	5%	1/10W
							METAL GLAZE		5%	1/10W
		TRANSISTOR 2SA1162-G	_				CONDUCTOR,		_	
		TRANSISTOR 2SC2412K-Q					METAL GLAZE		5%	1/10W
		TRANSISTOR 2SC2412K-Q	R		R5093	1-216-043-91	METAL GLAZE	560	5%	1/10W
		TRANSISTOR 2SA1162-G			DE004	1 010 040 04	METAL OLAZE	500	5 0/	4/4014/
Q5632	8-729-216-22	TRANSISTOR 2SA1162-G					METAL GLAZE METAL GLAZE		5%	1/10W 1/10W
05004	0 700 000 74	TRANSISTOR 2SC2412K-Q	D				METAL GLAZE		5% 5%	1/10W
Q3634	6-729-920-74	THAINSISTON 2502412K-Q	П				METAL GLAZE		5% 5%	1/10W
							METAL GLAZE		5%	1/10W
	<resistor:< td=""><td></td><td></td><td></td><td>110000</td><td>1 210 000 00</td><td>WEINE GENEE</td><td>7.71</td><td>070</td><td>1, 1011</td></resistor:<>				110000	1 210 000 00	WEINE GENEE	7.71	070	1, 1011
	X. 120.0 . 0 . 1.				R5100	1-216-025-00	METAL GLAZE	100	5%	1/10W
R5001	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R5101	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
			5%	1/10W	R5103	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
			5%	1/10W	R5106	1-216-089-00	METAL GLAZE	47K	5%	1/10W
		CONDUCTOR, CHIP			R5107	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R5007	1-216-025-00	METAL GLAZE 100	5%	1/10W						
DEAAA		METAL OLAZE 400	5 0/	4 (4 0) 14			METAL CHIP	3.6K		61/10W
		METAL GLAZE 100		1/10W 1/10W			METAL CHIP	150 390		61/10W 61/10W
		METAL GLAZE 4.7K METAL GLAZE 56K		1/10W			CONDUCTOR.		0.507	6 1/ TUVV
		METAL GLAZE 15K	5%	1/10W			CONDUCTOR,			
		METAL GLAZE 15K	5%	1/10W	110121	1-210-233-00	CONDUCTOR,	O. III		
110023	1 210 007 00	WETTE GENZE SON	0 70	1, 1011	R5122	1-216-295-00	CONDUCTOR,	CHIP		
R5030	1-216-689-11	METAL GLAZE 39K	5%	1/10W			CONDUCTOR,			
R5031	1-216-049-00	METAL GLAZE 1K	5%	1/10W	R5124	1-216-027-00	METAL GLAZE	120	5%	1/10W
R5032	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R5125	1-216-027-00	METAL GLAZE	120	5%	1/10W
R5033	1-208-845-11	METAL GLAZE 1M		1/10W	R5126	1-216-027-00	METAL GLAZE	120	5%	1/10W
R5034	1-208-845-11	METAL GLAZE 1M	5%	1/10W						
							METAL GLAZE			1/10W
		METAL GLAZE 33K	5%	1/10W			METAL OXIDE		5%	3W F
		METAL GLAZE 8.2K	5%	1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE 5.6K	5%	1/10W			CONDUCTOR,		E0/	4/4/0144
		METAL GLAZE 18K	5%	1/10W	H5206	1-216-039-00	METAL GLAZE	390	5%	1/10W
mo039	1-210-049-00	METAL GLAZE 1K	5%	1/10W	P5207	1-216-051-00	METAL GLAZE	1 2K	5%	1/10W
R5040	1-216-073-00	METAL GLAZE 10K	5%	1/10W			METAL GLAZE			61/10W
		METAL GLAZE 1M	5%	1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE 1M	5%	1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE 33K	5%	1/10W			METAL GLAZE		5%	1/10W
		METAL GLAZE 33K	5%	1/10W						•
					R5212	1-216-659-11	METAL CHIP	2.2K	0.50%	61/10W
R5045	1-208-845-11	METAL GLAZE 1M	5%	1/10W	R5213	1-216-647-11	METAL CHIP	680		61/10W
R5046	1-208-845-11	METAL GLAZE 1M	5%	1/10W			METAL CHIP	470		61/10W
		METAL GLAZE 10K	5%	1/10W			METAL GLAZE			1/10W
		METAL GLAZE 39K	5%	1/10W	R5216	1-216-663-11	METAL CHIP	3.3K	0.50%	61/10W
R5049	1-216-049-00	METAL GLAZE 1K	5%	1/10W	D5010	1 010 010 0:	METAL OLASS	500	F0/	4/40141
DC0=-	4 040 007 00	METAL OLAZE COL	E0/	1/1014/			METAL GLAZE			1/10W
		METAL GLAZE 10K	5% 5%	1/10W			METAL CHIP	7.5K		61/10W
-		METAL GLAZE 12K METAL GLAZE 1M	5% 5%	1/10W 1/10W			METAL CHIP METAL GLAZE	15K		61/10W 1/10W
		METAL GLAZE 1M	5% 5%	1/10W			CONDUCTOR,		J /0	1/1044
110000	1-200-0 4 0-11	WE THE GENEE TWI	J /0	77 1011	110222	. 210 200 00		J		



REF.NO. PART NO. DESCRIPTION	REMARK	REF.NO. PART NO. DESCRIPTION	REMARK
R5223 1-216-057-00 METAL GLAZE 2.2K	5% 1/1 0W	R5293 1-216-071-00 METAL GLAZE 8.2K	5% 1/10W
R5224 1-216-053-00 METAL GLAZE 2.2K	5% 1/10W	R5294 1-208-774-11 METAL CHIP 470	0.50%1/10W
R5226 1-216-053-00 METAL GLAZE 1.3K	376 17 10 VV	R5295 1-216-017-71 METAL GLAZE 47	5% 1/10W
R5227 1-208-784-11 METAL CHIP 1.2K	0.50%1/10W	R5296 1-208-812-11 METAL CHIP 18K	0.50%1/10W
R5228 1-216-671-11 METAL CHIP 6.8K	0.50%1/10W	10200 1200 012 11 102 11 10 101	0.0070171011
H3220 1-210-071-11 METAL OTH 0.01	0.00 /01/ 1044	R5297 1-216-659-11 METAL CHIP 2.2K	0.50%1/10W
R5229 1-216-667-11 METAL CHIP 4.7K	0.50%1/10W	R5298 1-216-055-00 METAL GLAZE 1.8K	5% 1/10W
R5230 1-216-673-11 METAL CHIP 8.2K	0.50%1/10W	R5301 1-216-295-00 CONDUCTOR, CHIP	
R5231 1-216-059-00 METAL GLAZE 2.7K	5% 1/10W	R5302 1-216-295-00 CONDUCTOR, CHIP	
R5232 1-216-295-00 CONDUCTOR, CHIP		R5305 1-216-025-00 METAL GLAZE 100	5% 1/10W
R5233 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W		
		R5306 1-216-025-00 METAL GLAZE 100	5% 1/10W
R5234 1-216-295-00 CONDUCTOR, CHIP		R5401 1-216-001-00 METAL GLAZE 10	5% 1/10W
R5235 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W	R5402 1-216-295-00 CONDUCTOR, CHIP	
R5236 1-216-295-00 CONDUCTOR, CHIP		R5403 1-208-845-11 METAL GLAZE 1M	5% 1/10W
R5237 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W	R5405 1-216-295-00 CONDUCTOR, CHIP	
R5238 1-216-660-11 METAL CHIP 2.4K	0.50%1/10W		
		R5406 1-216-039-00 METAL GLAZE 390	5% 1/10W
R5239 1-216-666-11 METAL CHIP 4.3K	0.50%1/10W	R5407 1-216-051-00 METAL GLAZE 1.2K	5% 1/10W
R5240 1-216-295-00 CONDUCTOR, CHIP		R5408 1-216-619-11 METAL CHIP 47	0.50%1/10W
R5241 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W	R5409 1-216-049-00 METAL GLAZE 1K	5% 1/10W
R5242 1-216-295-00 CONDUCTOR, CHIP		R5410 1-216-073-00 METAL GLAZE 10K	5% 1/10W
R5243 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W		
		R5411 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W
R5244 1-216-295-00 CONDUCTOR, CHIP		R5412 1-216-659-11 METAL CHIP 2.2K	0.50%1/10W
R5245 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W	R5413 1-216-647-11 METAL CHIP 680	0.50%1/10W
R5246 1-216-295-00 CONDUCTOR, CHIP		R5414 1-208-774-11 METAL CHIP 470	0.50%1/10W
R5248 1-216-295-00 CONDUCTOR, CHIP		R5415 1-216-017-71 METAL GLAZE 47	5% 1/10W
R5249 1-216-295-00 CONDUCTOR, CHIP			
		R5416 1-216-663-11 METAL CHIP 3.3K	0.50%1/10W
R5250 1-216-111-91 METAL GLAZE 390K	5% 1/10W	R5418 1-216-043-91 METAL GLAZE 560	5% 1/10W
R5252 1-216-111-91 METAL GLAZE 390K	5% 1/10 W	R5422 1-216-295-00 CONDUCTOR, CHIP	
R5253 1-216-111-91 METAL GLAZE 390K	5% 1/10 W	R5423 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W
R5254 1-216-111-91 METAL GLAZE 390K	5% 1/10 W	R5424 1-216-053-00 METAL GLAZE 1.5K	5% 1/10W
R5256 1-216-061-00 METAL GLAZE 3.3K	5% 1/10W		
		R5430 1-216-295-00 CONDUCTOR, CHIP	
R5257 1-216-061-00 METAL GLAZE 3.3K	5% 1/1 0W	R5431 1-208-784-11 METAL CHIP 1.2K	0.50%1/10W
R5258 1-216-298-00 METAL GLAZE 2.2	5% 1/ 10W	R5432 1-216-671-11 METAL CHIP 6.8K	0.50%1/10W
R5259 1-216-298-00 METAL GLAZE 2.2	5% 1/10W	R5433 1-216-667-11 METAL CHIP 4.7K	0.50%1/10W
R5260 1-216-001-00 METAL GLAZE 10	5% 1/10W	R5434 1-216-673-11 METAL CHIP 8.2K	0.50%1/10W
R5261 1-216-061-00 METAL GLAZE 3.3K	5% 1/10W		
		R5435 1-216-059-00 METAL GLAZE 2.7K	5% 1/10 W
R5262 1-216-061-00 METAL GLAZE 3.3K	5% 1/10W	R5436 1-216-295-00 CONDUCTOR, CHIP	5% 1/10W
R5263 1-216-298-00 METAL GLAZE 2.2	5% 1/10W	R5437 1-216-057-00 METAL GLAZE 2.2K R5438 1-216-295-00 CONDUCTOR, CHIP	5% 1/10W
R5264 1-216-298-00 METAL GLAZE 2.2	5% 1/10W		E0/ 1/10M/
R5265 1-216-001-00 METAL GLAZE 10	5% 1/10W	R5439 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W
R5266 1-216-061-00 METAL GLAZE 3.3K	5% 1/10 W	DEA40 1 216 205 00 CONDUCTOR CHIR	
DE007 4 040 004 00 METAL OLATE 0.01/	EO/ 1/10\A/	R5440 1-216-295-00 CONDUCTOR, CHIP R5441 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W
R5267 1-216-061-00 METAL GLAZE 3.3K	5% 1/10W	R5442 1-216-660-11 METAL CHIP 2.4K	0.50%1/10W
R5268 1-216-298-00 METAL GLAZE 2.2	5% 1/10W	R5443 1-216-666-11 METAL CHIP 4.3K	0.50%1/10W
R5269 1-216-298-00 METAL GLAZE 2.2	5% 1/10W 5% 1/10W	R5444 1-216-295-00 CONDUCTOR, CHIP	U.SU /61/1UW
R5270 1-216-001-00 METAL GLAZE 10		H3444 1-216-295-00 CONDUCTOR, CHIP	
R5271 1-216-061-00 METAL GLAZE 3.3K	5% 1/10 W	R5445 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W
DECTO 4 040 004 00 METAL OLATE 0.0V	E0/ 1/10\M	R5446 1-216-295-00 CONDUCTOR, CHIP	376 1/10W
R5272 1-216-061-00 METAL GLAZE 3.3K	5% 1/10W	R5447 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W
R5273 1-216-298-00 METAL GLAZE 2.2	5% 1/10W 5% 1/10W	R5448 1-216-295-00 CONDUCTOR, CHIP	070 1710 44
R5274 1-216-298-00 METAL GLAZE 2.2	5% 1/10 W 5% 1/10 W	R5449 1-216-057-00 METAL GLAZE 2.2K	5% 1/10W
R5275 1-216-001-00 METAL GLAZE 10	5% 1/10W	110-40 1-210-007-00 WEINE GENZE ZIZN	370 1/10 1 4
R5276 1-216-001-00 METAL GLAZE 10	370 1/ TUVV	R5452 1-216-295-00 CONDUCTOR, CHIP	
DEGGE 1 316 077 ON METAL CLATE 151	5% 1/10W	R5453 1-216-295-00 CONDUCTOR, CHIP	
R5285 1-216-077-00 METAL GLAZE 15K R5286 1-216-085-00 METAL GLAZE 33K	5% 1/10 W	R5455 1-216-111-91 METAL GLAZE 390K	5% 1/10W
R5287 1-216-085-00 METAL GLAZE 33K	5% 1/10W	R5456 1-216-111-91 METAL GLAZE 390K	5% 1/10W
R5287 1-216-025-00 METAL GLAZE 100 R5288 1-216-295-00 CONDUCTOR, CHIP	570 1/10 11	R5457 1-216-111-91 METAL GLAZE 390K	5% 1/10W
R5290 1-216-619-11 METAL CHIP 47	0.50%1/10W	1.030. TETO THE OFFICE GUILLE GOOK	5,5 ,,1011
110230 1-210-013-11 WILLIAL OFFF 4/	0.00 /0 1/ 10 VV	R5458 1-216-111-91 METAL GLAZE 390K	5% 1/10W
R5292 1-216-073-00 METAL GLAZE 10K	5% 1/10 W	R5459 1-216-061-00 METAL GLAZE 3.3K	5% 1/10W
	0.0 11.011	1	



REF.NO. PART NO. DESCRIPTION	ON	RE	MARK	REF.NO.	PART NO.	DESCRIPTION	1	RI	EMARK
R5460 1-216-061-00 METAL GLAZ	7E 2 2V 5	5%	1/10W	D5636	1-216-057-00	METAL GLAZE	2.21	5%	1/10W
R5461 1-216-298-00 METAL GLAZ			1/10W 1/10W			CONDUCTOR,		5%	1/1044
R5462 1-216-298-00 METAL GLAZ			1/10W	H3037	1-210-295-00	CONDUCTOR,	OHIF		
H3402 1-216-296-00 METAL GLAZ	LE 2.2 :	70	1/1044	B5638	1-216-057-00	METAL GLAZE	2 2K	50/	1/10W
R5463 1-216-001-00 METAL GLAZ	7E 10 4	5%	1/10W			METAL CHIP	2.4K		51/10W
R5464 1-216-061-00 METAL GLAZ			1/10W			METAL CHIP	4.3K		51/10W
R5465 1-216-061-00 METAL GLAZ			1/10W			CONDUCTOR,	-	0.00 /	,,,,,,,,,,
R5466 1-216-298-00 METAL GLAZ			1/10W			METAL GLAZE		5%	1/10W
R5467 1-216-298-00 METAL GLAZ			1/10W						.,
				R5643	1-216-295-00	CONDUCTOR,	CHIP		
R5468 1-216-001-00 METAL GLAZ	ZE 10 5	5%	1/10W			METAL GLAZE		5%	1/10W
R5469 1-216-061-00 METAL GLAZ	ZE 3.3K 5	5%	1/10W	R5645	1-216-295-00	CONDUCTOR,	CHIP		
R5470 1-216-061-00 METAL GLAZ	ZE 3.3K 5	5%	1/10W	R5646	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R5471 1-216-298-00 METAL GLAZ	ZE 2.2	5%	1/10W	R5649	1-216-295-00	CONDUCTOR,	CHIP		
R5472 1-216-298-00 METAL GLAZ	ZE 2.2	5%	1/10W						
				R5650	1-216-295-00	CONDUCTOR,	CHIP		
R5473 1-216-001-00 METAL GLAZ			1/10W			METAL GLAZE		5%	1/10W
R5474 1-216-061-00 METAL GLAZ			1/10W			METAL GLAZE		5%	1/10W
R5475 1-216-061-00 METAL GLAZ			1/10W			METAL GLAZE		5%	1/10W
R5476 1-216-298-00 METAL GLAZ			1/10W	R5655	1-216-111-91	METAL GLAZE	390K	5%	1/10W
R5477 1-216-298-00 METAL GLAZ	ZE 2.2	5%	1/10W	5					
DE LEO LOLO COLLOS METAL OLA	75 40 /	-01	4 (4 0) 44			METAL GLAZE		5%	1/10W
R5478 1-216-001-00 METAL GLAZ			1/10W			METAL GLAZE		5%	1/10W
R5479 1-216-001-00 METAL GLAZ		5%	1/10W			METAL GLAZE		5%	1/10W
R5484 1-216-295-00 CONDUCTO	•	. E00/	4/40W			METAL GLAZE METAL GLAZE		5% 5%	1/10W
R5486 1-216-619-11 METAL CHIP R5488 1-216-071-00 METAL GLAZ			1/10W 1/10W	H36/U	1-216-001-00	METAL GLAZE	10	5%	1/10W
H3400 1-210-071-00 METAL GLAZ	LE 0.2N	70	1/1044	D5671	1.216.061.00	METAL GLAZE	2 214	5%	1/10W
R5489 1-216-065-00 METAL GLAZ	7E 47K F	5%	1/10W			METAL GLAZE		5%	1/10W
R5490 1-208-774-11 METAL CHIP			1/10W			METAL GLAZE		5%	1/10W
R5491 1-216-017-71 METAL GLAZ			1/10W			METAL GLAZE		5%	1/10W
R5494 1-216-025-00 METAL GLAZ			1/10W			METAL GLAZE		5%	1/10W
R5495 1-216-025-00 METAL GLAZ			1/10W	110070	1210 001 00	MICHAE GENZE	10	070	171011
110 100 1 210 020 0021112 020 1		,,,	,,,,,,,,	R5676	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R5601 1-216-001-00 METAL GLAZ	ZE 10 5	5%	1/10W			METAL GLAZE		5%	1/10W
R5602 1-216-295-00 CONDUCTO	R, CHIP			R5678	1-216-298-00	METAL GLAZE	2.2	5%	1/10W
R5603 1-208-845-11 METAL GLAZ	ZÉ 1M 5	5%	1/10W	R5679	1-216-298-00	METAL GLAZE	2.2	5%	1/10W
R5605 1-216-295-00 CONDUCTO	R, CHIP			R5680	1-216-001-00	METAL GLAZE	10	5%	1/10W
R5606 1-216-039-00 METAL GLAZ	ZE 390 5	5%	1/10W						
				R5681	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R5607 1-216-051-00 METAL GLAZ			1/10W			METAL GLAZE		5%	1/10W
R5608 1-216-619-11 METAL CHIP			1/10W			METAL GLAZE		5%	1/10W
R5609 1-216-049-00 METAL GLAZ			1/10W			METAL GLAZE		5%	1/10W
R5610 1-216-077-00 METAL GLAZ			1/10W	R5685	1-216-001-00	METAL GLAZE	10	5%	1/10W
R5611 1-216-063-91 METAL GLAZ	ZE 3.9K 5	%	1/10W						
		. =				METAL GLAZE		5%	1/10W
R5612 1-216-659-11 METAL CHIP			1/10W			METAL GLAZE		5%	1/10W
R5613 1-216-647-11 METAL CHIP			1/10W			METAL GLAZE		5%	1/10W
R5614 1-208-774-11 METAL CHIP			1/10W			METAL GLAZE		5%	1/10W
R5615 1-216-017-71 METAL GLAZ			1/10W	Hobei	1-216-025-00	METAL GLAZE	100	5%	1/10W
R5616 1-216-664-11 METAL CHIP) 3.6K ().50%	1/10W	DECOO	1 010 005 00	METAL CLAZE	100	E0/	1/1014/
R5618 1-216-043-91 METAL GLAZ	7E E60 1	5%	1/10W			METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R5622 1-216-295-00 CONDUCTO		070	1/1044			METAL GLAZE		5% 5%	1/10W
R5623 1-216-057-00 METAL GLAZ	•	5%	1/10W			CONDUCTOR.		378	1710
R5624 1-216-053-00 METAL GLAZ			1/10W			CONDUCTOR.			
R5627 1-216-295-00 CONDUCTO		<i>J</i> 70	1/10**	113700	1-210-233-00	OCIVEOUTOR,	JI 111		
1002/ 1-210-293-00 OONDOOTO	, Οι			B5701	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R5628 1-208-784-11 METAL CHIP	1.2K (0.50%	1/10W			CONDUCTOR,		- /-	.,
R5629 1-216-671-11 METAL CHIP			1/10W				1.5K	0.50%	1/10W
R5630 1-216-667-11 METAL CHIP			1/10W			METAL GLAZE			1/10W
R5631 1-216-673-11 METAL CHIP			1/10W			METAL GLAZE		5%	1/10W
R5632 1-216-059-00 METAL GLAZ			1/10W						• •
			- *-	R5709	1-208-774-11	METAL CHIP	470	0.50%	1/10W
R5633 1-216-295-00 CONDUCTO	R, CHIP					METAL GLAZE		5%	1/10W
R5634 1-216-057-00 METAL GLAZ	ZE 2.2K	5%	1/10W	R5711	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R5635 1-216-295-00 CONDUCTO						METAL GLAZE		5%	1/10W
			'						



REF.NO. PART NO.	DESCRIPTION	R	EMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R5715 1-216-025-00	0 METAL GLAZE 100	5%	1/10W	L .		CHIP, CHECKER CHIP, CHECKER	
<resistor< td=""><td>NETWORK></td><td></td><td></td><td></td><td></td><td></td><td></td></resistor<>	NETWORK>						
	1 NETWORK, RES 220			*******	******	************	******
RB5003 1-236-400-1 RB5006 1-236-400-1	1 NETWORK, RES 220 1 NETWORK, RES 100 1 NETWORK, RES 100			*	A-1372-259-A	H BOARD, COMPLETE	
RB5008 1-236-400-1	1 NETWORK, RES 100 1 NETWORK, RES 100 1 NETWORK, RES 220					HOLDER, LED (D8002) HOLDER, LED (D8005, D80	007)
	1 NETWORK, RES 220				<capacitoi< td=""><td>R></td><td></td></capacitoi<>	R>	
	RESISTOR>					CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF	
RV5203 1-241-394-1 RV5204 1-241-394-1	1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE	4.7K 4.7K			<connecto< td=""><td>OR></td><td></td></connecto<>	OR>	
RV5206 1-241-394-1	1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE	4.7K		CN8003	*1-564-525-11	PLUG, CONNECTOR 9P PLUG, CONNECTOR 10P PLUG, CONNECTOR 3P	
RV5208 1-241-394-1 RV5209 1-241-392-1	1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE	4.7K 1K				PLUG, CONNECTOR 3P	
RV5211 1-241-394-1 RV5401 1-241-392-1	1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE	1K			<diode></diode>		
RV5403 1-241-394-1 RV5404 1-241-394-1 RV5405 1-241-394-1	1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE	4.7K 4.7K 4.7K		D8002 D8004 D8005	8-719-920-55 8-719-016-73 8-719-812-41	B DIODE 1SS133T-77 5 DIODE SPR-54MVW B DIODE STZ6.8T I DIODE TLR124 B DIODE STZ6.8T	
RV5408 1-241-394-1 RV5409 1-241-392-1 RV5410 1-241-394-1	1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE	4.7K 1K 4.7K		D8008 D8009 D8011	8-719-016-73 8-719-016-73 8-719-016-73	DIODE TLR124 B DIODE STZ6.8T B DIODE STZ6.8T B DIODE STZ6.8T B DIODE STZ6.8T	
RV5603 1-241-394-1	1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE	4.7K		D8013	8-719-016-73	B DIODE STZ6.8T	
RV5605 1-241-394-1	1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE	4.7K			<ic></ic>		
RV5608 1-241-394-1	1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE	4.7K		IC8001		1 IC SBX1780-51	
	1 RES, ADJ, METAL GLAZE 1 RES, ADJ, METAL GLAZE					1 BLOCK, (S) TERMINAL	
<thermis< td=""><td>TOR></td><td></td><td></td><td>J8002</td><td>1-774-753-11</td><td>IJACK</td><td></td></thermis<>	TOR>			J8002	1-774-753-11	IJACK	
TH5201 1-806-715-1	1 THERMISTOR				<coil></coil>		
<test pin:<="" td=""><td>></td><td></td><td></td><td></td><td>I-408-409-00 I-408-409-00</td><td></td><td></td></test>	>				I-408-409-00 I-408-409-00		
TP5009 1-535-877-2 TP5203 1-535-877-2 TP5205 1-535-877-2	22 CHIP, CHECKER				<transist< td=""><td>OR></td><td></td></transist<>	OR>	
TP5403* 1-535-877-2 TP5405* 1-535-877-2	22 CHIP, CHECKER			Q8001	8-729-027-23	3 TRANSISTOR DTA114EKA	-T146



REF.NO.	PART NO.	DESCRIPTION		RE	MARK	REF.NO.	PART NO.	DESCRIPTION		R	EMARK
	<resistor:< td=""><td>•</td><td></td><td></td><td></td><td>C2908</td><td>1-163-263-11</td><td>CERAMIC CHIP</td><td>330pF</td><td>5%</td><td>50V</td></resistor:<>	•				C2908	1-163-263-11	CERAMIC CHIP	330pF	5%	50V
B8002	1-216-037-00	METAL GLAZE	330	5%	1/10W	C2909	1-101-004-00	CERAMIC	0.01MF		50V
		METAL GLAZE			1/10W			CERAMIC CHIP		10%	
		METAL GLAZE			1/10W	-		CERAMIC CHIP		10%	
		METAL GLAZE			1/10W			CERAMIC CHIP		5%	50V
		METAL GLAZE			1/10W			CERAMIC CHIP		5%	50V
R8010	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W			CERAMIC CHIP		5%	
		METAL GLAZE			1/10W			CERAMIC CHIP		5%	50V
		METAL GLAZE		5%	1/10W			CERAMIC CHIP		10%	
		CONDUCTOR, C						CERAMIC CHIP		10% 5%	50V 50V
		CONDUCTOR, C						CERAMIC CHIP	•	5%	50V
		METAL GLAZE		5%	1/10W			CERAMIC CHIP			
		METAL GLAZE			1/10W			CERAMIC CHIP		10%	
		METAL GLAZE			1/10W		1-126-967-11		47MF	20%	
H0022	1-210-003-00	WIETAL GLAZE	0.010	370	171011			CERAMIC CHIP		2070	16V
	<switch></switch>						1-126-967-11		47MF	20%	
							1-126-967-11		47MF	20%	
S8001	1-571-731-11	SWITCH, TACTIL	[MODE C	HANG	E)	C2926	1-164-346-11	CERAMIC CHIP	1MF		16V
		SWITCH, TACTIL					1-126-967-11		47MF	20%	
		SWITCH, TACTIL SWITCH, TACTIL				C2929	1-126-967-11	ELECT	47MF	20%	16V
		SWITCH, TACTIL				C2930	1-126-967-11	ELECT	47MF	20%	16V
00010	1 3/1 /31 11	01111011, 1710111	- (01. (1))					CERAMIC CHIP			16V
						ł .		CERAMIC CHIP			16V
								ELECT	47MF	20%	16V
*******	********	*******	*****	******	*****	C2935	1-126-967-11	ELECT	47MF	20%	16V
;	* A-1388-189-A	J BOARD, COMP						CERAMIC CHIP			16V
		***********	*****					CERAMIC CHIP			16V
								ELECT	47MF	20%	-
						C2939 C2940	1-102-119-00 1-102-119-00		0.0015MF 0.0015MF		
	<capacito< td=""><td>R></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></capacito<>	R>									
C2003	1-126-964-11		10MF	20%			<connecto< td=""><td>OR></td><td></td><td></td><td></td></connecto<>	OR>			
	1-126-964-11		10MF	20%							
	1-126-967-11		47MF	20%				CONNECTOR,		BOAH	ID 40P
		CERAMIC CHIP		10%	50V 16V	CN2823	*1-564-524-11	PLUG, CONNEC	CTOR 9P		
C2402	1-126-933-11	ELECT	100MF	20%	16V		<diode></diode>				
		CERAMIC CHIP			16V						
	1-126-966-11		33MF	20%	50V	D2001	8-719-923-60	DIODE MTZJ-T-	77-9.1A		
C2421	1-126-967-11	ELECT	47MF	20%	16V	D2002	8-719-923-60	DIODE MTZJ-T-	77-9.1A		
C2422	1-126-967-11	ELECT	47MF	20%	16V	D2401	8-719-923-60	DIODE MTZJ-T-	77-9.1A		
						D2403	8-719-923-60	DIODE MTZJ-T-	77-9.1A		
		CERAMIC CHIP			50V	D2405	8-719-923-60	DIODE MTZJ-T-	77-9.1A		
		CERAMIC CHIP	•	5%	50V	1					
		CERAMIC CHIP	1	5%	50V	1		DIODE MTZJ-T-			
	1-126-967-11		47MF	20%				DIODE MTZJ-T-			
C2427	1-164-346-11	CERAMIC CHIP	1MF		16V			DIODE MTZJ-T-			
			=		40) /			DIODE MTZJ-T-			
		CERAMIC CHIP		000/	16V	D2903	8-719-923-60	DIODE MTZJ-T-	77-9.1A		
	1-104-661-91		330MF	20%		D0004	0.710.000.00	DIODE MT71 T	77.0.14		
		CERAMIC CHIP		100/	50V			DIODE MTZJ-T-			
		CERAMIC CHIP						DIODE MTZJ-T-			
C2902	1-163-011-11	CERAMIC CHIP	U.UU 15MF	10%	SUV	1		DIODE MTZJ-T-			
00004	4 400 000 1	CEDAMIC CLUB	220nE	E0/	E0\/	1		DIODE MTZJ-T-			
		I CERAMIC CHIP		5% 5%	50V 50V	D2908	0-719-923-00	DIODE MTZJ-T-	77-3.1A		
	1-163-263-1	CERAMIC CHIP	0.01MF	5%	50V 50V	Dagoo	8.710.022.60	DIODE MTZJ-T-	77-0 1 4		
C2905	1-101-004-00	CERAMIC CHIP		5%	50V 50V			DIODE MTZJ-T-			
C2907	1-100-200-1	CENAIVIIC CHIP	Joupe	J /0	JU v	1 52910	0-119-920-00	DIODE MILEU-1-	11-3.1A		



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	l	R	EMARK
D2911	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR2902	1-216-295-00	CONDUCTOR,	CHIP		
		DIODE MTZJ-T-77-9.1A				,			
		DIODE MTZJ-T-77-9.1A		JR2903	1-216-295-00	CONDUCTOR,	CHIP		
D2915	8-719-923-60	DIODE MTZJ-T-77-9.1A							
		DIODE MTZJ-T-77-9.1A	•		<transisto< td=""><td>R></td><td></td><td></td><td></td></transisto<>	R>			
		DIODE MTZJ-T-77-9.1A							
		DIODE MTZJ-T-77-9.1A		Q2001	8-729-920-74	TRANSISTOR 2	SC2412K-QR	l	
		DIODE MTZJ-T-77-9.1A		Q2002	8-729-920-74	TRANSISTOR 2	SC2412K-QR	l	
				Q2401	8-729-920-74	TRANSISTOR 2	SC2412K-QR	l	
D2921	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q2402	8-729-920-74	TRANSISTOR 2	SC2412K-QR	t	
		DIODE MTZJ-T-77-9.1A		Q2403	8-729-920-74	TRANSISTOR 2	SC2412K-QR	l	
D2923	8-719-923-60	DIODE MTZJ-T-77-9.1A							
D2924	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q2404	8-729-920-74	TRANSISTOR 2	SC2412K-QF	l	
D2925	8-719-923-60	DIODE MTZJ-T-77-9.1A							
D2926	8-719-923-60	DIODE MTZJ-T-77-9.1A			<resistor></resistor>	•			
		DIODE MTZJ-T-77-9.1A							
		DIODE MTZJ-T-77-9.1A		R2003	1-216-113-00	METAL GLAZE	470K 5	%	1/10W
D2930	8-719-923-60	DIODE MTZJ-T-77-9.1A		R2005	1-216-113-00	METAL GLAZE	470K 5	%	1/10W
D2931	8-719-923-60	DIODE MTZJ-T-77-9.1A		R2006	1-249-421-11	CARBON	2.2K 5	%	1/4W
				R2007	1-249-421-11	CARBON	2.2K 5	%	1/4W
D2932	8-719-923-60	DIODE MTZJ-T-77-9.1A		R2401	1-216-009-00	METAL GLAZE	22 5	%	1/10W
				D2402	1 216 025 00	METAL GLAZE	100 5	%	1/10W
	10					METAL GLAZE			1/8W
	<ic></ic>					METAL GLAZE		%	
100101	. == 10	10.00440550	i						
		IC CXA1855S				METAL GLAZE		%	1/8W
IC2402	8-759-073-00	IC TEA2114		H2407	1-216-025-00	METAL GLAZE	100 5	%	1/10W
				R2410	1-216-174-00	METAL GLAZE	100 5	%	1/8W
	<jack></jack>			R2411	1-216-174-00	METAL GLAZE	100 5	%	1/8 W
				R2412	1-216-022-00	METAL GLAZE	75 5	%	1/10W
J2001	1-537-505-11	TERMINAL BOARD (2P)		R2413	1-216-022-00	METAL GLAZE	75 5	%	1/10W
J2901	1-695-296-11	TERMINAL BLOCK, S		R2414	1-216-022-00	METAL GLAZE	75 5	%	1/10W
J2903	1-695-549-11	SOCKET, PIN 21P							
J2904	1-695-296-11	TERMINAL BLOCK, S		R2416	1-216-113-00	METAL GLAZE	470K 5	%	1/10W
J2905	1-695-549-11	SOCKET, PIN 21P				METAL GLAZE		%	1/10W
						METAL GLAZE		%	1/10W
J2906	1-695-296-11	TERMINAL BLOCK, S				METAL GLAZE		%	1/10W
J2907	1-695-549-11	SOCKET, PIN 21P		R2421	1-216-022-00	METAL GLAZE	75 5	%	1/10W
				R2423	1-216-015-00	METAL GLAZE	39 5	%	1/10W
	<chip cone<="" td=""><td>OUCTOR></td><td></td><td>R2424</td><td>1-216-174-00</td><td>METAL GLAZE</td><td>100 5</td><td>%</td><td>1/8W</td></chip>	OUCTOR>		R2424	1-216-174-00	METAL GLAZE	100 5	%	1/8 W
				R2425	1-216-174-00	METAL GLAZE	100 5	%	1/8 W
JR1	1-216-295-00	CONDUCTOR, CHIP		R2428	1-249-393-11	CARBON	10 5	%	1/4W F
JR4		CONDUCTOR, CHIP		R2429	1-216-065-00	METAL GLAZE	4.7K 5	%	1/10W
JR5	1-216-295-00	CONDUCTOR, CHIP							
JR6	1-216-295-00	CONDUCTOR, CHIP		R2430	1-216-065-00	METAL GLAZE	4.7K 5	%	1/10W
JR8	1-216-295-00	CONDUCTOR, CHIP		R2431	1-216-065-00	METAL GLAZE	4.7K 5	%	1/10W
				R2432	1-216-065-00	METAL GLAZE	4.7K 5	%	1/1 0W
JR9	1-216-295-00	CONDUCTOR, CHIP		R2433	1-216-296-00	CONDUCTOR,	CHIP		
JR10		CONDUCTOR, CHIP		R2434	1-216-198-91	METAL GLAZE	1K 5	%	1/8 W
JR11	1-216-295-00	CONDUCTOR, CHIP							
JR12	1-216-295-00	CONDUCTOR, CHIP		R2435	1-216-049-00	METAL GLAZE	1K 5	%	1/10W
JR15	1-216-295-00	CONDUCTOR, CHIP		R2436	1-216-049-00	METAL GLAZE	1K 5	%	1/10W
						METAL GLAZE		%	1/10W
JR50	1-216-296-00	CONDUCTOR, CHIP		l		CONDUCTOR,			
		CONDUCTOR, CHIP		R2439	1-216-295-00	CONDUCTOR,	CHIP		
JR2001	1-216-295-00	CONDUCTOR, CHIP							
		CONDUCTOR, CHIP				CONDUCTOR,			
JR2005	1-216-296-00	CONDUCTOR, CHIP				METAL GLAZE		%	1/10W
						METAL GLAZE		%	1/10W
		CONDUCTOR, CHIP				METAL GLAZE		%	1/10W
		CONDUCTOR, CHIP		R2904	1-216-113-00	METAL GLAZE	470K 5	%	1/10W
		CONDUCTOR, CHIP					-		414014
JR2901	1-216-295-00	CONDUCTOR, CHIP		R2905	1-216-039-00	METAL GLAZE	390 5	5%	1/10W

J TA TB

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION		RE	MARK	REF.NO. PART NO.	DESCRIPTION	R	EMARK
Doone	1 016 020 00	METAL CLAZE	200 5	% -	_{1/10W}	R2964 1-216-022-00	METAL CLAZE 75	5%	1/10W
		METAL GLAZE			1/8W	R2967 1-216-171-00		5%	1/8W
		METAL GLAZE						5% 5%	1/10W
		METAL GLAZE			1/8W	H2908 1-216-055-00	METAL GLAZE 1.8K	5%	1/1044
H2909	1-216-113-00	METAL GLAZE	4/UK 5	% -	1/10W	D0060 1 016 055 00	METAL GLAZE 1.8K	E0/	1/10W
		METAL OL 475	4.014	۰,	4/4014/			5%	1/10W
		METAL GLAZE			1/10W		METAL GLAZE 1.8K	5%	
		METAL GLAZE			1/10W		METAL GLAZE 1.8K	5%	1/10W
		METAL GLAZE			1/10W		METAL GLAZE 1.8K	5%	1/10W
		METAL GLAZE			1/10W	R29/3 1-216-055-00	METAL GLAZE 1.8K	5%	1/10W
R2915	1-216-113-00	METAL GLAZE	470K 5	%	1/10W			==:	44014
							METAL GLAZE 1.8K	5%	1/10W
		METAL GLAZE			1/10W		METAL GLAZE 470K	5%	1/10W
		METAL GLAZE			1/8W		METAL GLAZE 1.8K	5%	1/10W
		METAL GLAZE			1/8W	R2977 1-216-055-00	METAL GLAZE 1.8K	5%	1/10W
		METAL GLAZE			1/10W				
R2920	1-216-063-91	METAL GLAZE	3.9K 5	%	1/10W				

		METAL GLAZE			1/10W	*********		*****	****
		METAL GLAZE			1/10W			_	
		METAL GLAZE			1/10W	* A-1390-621-A	TA BOARD, COMPLET		
		METAL GLAZE			1/10W		********	**	
R2925	1-216-089-00	METAL GLAZE	47K 5	%	1/10W				
			_						
		METAL GLAZE			1/10W	001115070			
		METAL GLAZE			1/10W	<connecto< td=""><td>DH></td><td></td><td></td></connecto<>	DH>		
		METAL GLAZE			1/10W			_	
R2929	1-216-063-91	METAL GLAZE			1/10W	CN9501*1-564-518-11	PLUG, CONNECTOR 3	Р	
R2930	1-216-113-00	METAL GLAZE	470K 5	%	1/10W				
_				_,		OMITOU			
		METAL GLAZE			1/10W	<switch></switch>			
		METAL GLAZE			1/10W				
		METAL GLAZE			1/10W	S9501 1-570-245-11	SWITCH, MICRO (SEN	SOR (LAN	(P COV)
		METAL GLAZE			1/10W				
R2935	1-216-022-00	METAL GLAZE	75 5	%	1/10W				
			75 5	·0/	4 /014/	********	*******	*******	*****
		METAL GLAZE			1/8W				
		METAL GLAZE			1/10W	* * 4000 000 *	TR BOARD COMPLET	_	
		METAL GLAZE			1/10W	A-1390-022-A	TB BOARD, COMPLET		
		METAL GLAZE			1/10W				
H2940	1-216-063-91	METAL GLAZE	3.9K 5	%	1/10W				
D2041	1 216-112-00	METAL GLAZE	470K 5	i%	1/10W				
		METAL GLAZE			1/10W	<connecto< td=""><td>DB></td><td></td><td></td></connecto<>	DB>		
		METAL GLAZE			1/10W	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3112		
		METAL GLAZE	200 5		1/10W	CN9551*1-564-518-11	PLUG, CONNECTOR 3	P	
		METAL GLAZE			1/10W	0110001 1 004 010 11	1 200, 001112010110	•	
M2340	1-210-003-00	, WILLIAL GLAZE	7/10	. , ,	.,				
R2946	1-216-022-00	METAL GLAZE	75 5	5%	1/10W	<switch></switch>			
		METAL GLAZE			1/10W				
		METAL GLAZE			1/10W	S9551 1-570-245-11	SWITCH, MICRO		
		METAL GLAZE			1/10W		· · · · · · · · · · · · · · · · · · ·	SOR (FILT	TER COV)]
		METAL GLAZE			1/10W		[02.11		
112331	1 210 000 0	1 1112 1712 02 122	0.01	,,,	.,				
R2952	1-216-113-00	METAL GLAZE	470K 5	5%	1/10W				
		METAL GLAZE			1/10W	*********	**********	*****	******
		METAL GLAZE			1/10W				
		METAL GLAZE			1/10W		MISCELLANEOUS		
		METAL GLAZE			1/10W		******		
	5 000 00		• • • • • • • • • • • • • • • • • • • •						
R2957	1-216-039-00	METAL GLAZE	390 5	5%	1/10W	1-251-459-11	BOOSTER, RF		
R2958	1-216-089-00	METAL GLAZE	47K 5		1/10W		OPTICAL ÚNIT		
		METAL CHIP			1/10W		POWER BLOCK		
		METAL CHIP			1/10W	Value (a) (a) (b) (b) (b) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	SPEAKER (5.7CM)		·····
		1 METAL CHIP			1/10W		SPEAKER (10CM)		
001									
R2962	1-216-022-00	METAL GLAZE	75 5	5%	1/10W	∆ 1-533-746-11	THERMOSTAT		
		METAL GLAZE		5%	1/10W	1-543-653-11	CORE ASSY, BEAD (D	IVISION T	YPE)
						•			

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
	CORD, POWER 10A/25 (except for P POWER CORD, FILTER	(L-37W1U/50W1U)			
* 1-777-539-11 (CABLE, PIN				
REMOTE COM					
1-473-407-11 (COMMANDER, STANDA	ARD (RM-838)			

SONY. SERVICE MANUAL

LE-1 CHASSIS

MODEL COMMANDER DEST.

KL-37W1 RM-838 AEP

KL-37W1K RM-838 UK

MODEL COMMANDER DEST.

KL-50W1 RM-838 AEP

KL-50W1K RM-838 UK

KL-50W1U RM-838 UK

SUPPLEMENT-1

SUBJECT: ADD ON ADJUSTMENTS

File this supplement with the service manual.

SECTION 3 CIRCUIT ADJUSTMENTS (See page from 22 to 28)

TABLE OF CONTENTS

Se	ection <u>Title</u>	<u>Page</u>
	C Board Adjustment	. 2
	A Board Adjustment	. 6
	Sub BRT, Sub PIX Adjustment	. 7
	White Balance Adjustment	. 8



ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
C BOARD ADJUSTMENT				
1. PLL fo Adjustment				
(1) WIDE Mode				
1) Change to "WIDE Mode".				
2) Input to monoscope signal.	monoscope			
Change "H. SYNC input" CN5202 1pin input to open (no signal).	signal			
4) Connect 100Ω resister between 2pin of IC5004 and				
TP5009, then connect frequency counter to 1pin of IC5004.	Frequency counter	1pin of IC5004.		
5) Turn L5002 and adjust to 13.67 ± 0.1 MHz.			L5002	13.67 ± 0.1 MHz
6) Input H. SYNC for PAL double speed.				
 Confirm that the waveform for TP5007 <rpd2> shall be Fig.</rpd2> 		TP5007		23±03V
(2) 4.3 Mode				
1) Change to "4: 3 Mode".				31.78 μs
2) Input to monoscope signal.	monoscope			
 Change H. SYNC CN5202 1pin input to open (no signal). 	signal			
4) Connect 100Ω resister between 2pin of IC5004 and				
TP5009, then connect frequency counter to 1pin of IC5004.		lpin of IC5004	L5004	10.22 ± 0.05 MHz
5) Turn L5004 and Adjust to 10.22 ± 0.05 MHz.				
6) Input H. SYNC for PAL double speed.				
7) Confirm that the waveform of TP5004 <rpd1> shall</rpd1>		TP5004		
be Fig.				
				

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 r curve adjustment Change to "WIDE Mode". Input PAL double speed signal 10 step. Fig-1 R ch Connect Oscilloscope to TP5201 <r>.</r> Add 2.25 ± 0.02 V to TP5211 <rlbs> 3.95 ± 0.02 V to TP5210 <rhbs></rhbs> by DC power supply. </rlbs> Confirm that the signal level under 10 IRE and above 80 IRE is increased with above condition. Fig-2 Adjust RV5201 <rl, gain=""> so that signal level of "0 IRE~10 IRE" might be 130 ± 10 mV. Fig-3</rl,> Turn RV5209 <rh gain=""> to the left direction by aplox 150° and adjust so that "90 IRE~100 IRE" might be minimum. Fig-4 (In Case that "100 IRE~GND" is above 3.7 V; Adjustment is N.G)</rh> 	PAL double speed signal 10 step. Oscilloscope more than 100MHz	POSITION	RV5201 RV5209	## Fig-1 Column Fig-1 Fig-1 Fig-2
 (4) G ch Connect Oscilloscope to TP5401 <g>.</g> Add 2.25 ± 0.02 V to TP5411 <glbs> 3.95 ± 0.02 V to TP5410 <ghbs> by DC power supply.</ghbs></glbs> Confirm that the signal level under 10 IRE and above 90 IRE is increased with above condition. Fig-1 Turn RV5401 <gl, gain=""> to the right direction and adjust so that "0 IRE~10 IRE" might be 180 ± 10 mV. Fig-5</gl,> Change TP5411 <glbs>, TP5410 <ghbs> to OPEN.</ghbs></glbs> Turn RV5402 <gl, bias=""> to the left direction and adjust so that "10 IRE~40 IRE" might be 380 ± 10 mV. Fig-6</gl,> 	Oscilloscope	TP5401	RV5401 RV5402	Fig-4 180 mV 10 IRE Fig-5 180 mV 10 IRE Fig-6 Fig-6

ADJUSTMENT ITEM AND PROCEDURE		EQUIPMENT MEASUREMENT AND SIGNAL POSITION		ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER	
(5) B ch						
1) Connect Osci	lloscope to TP5601 	Oscilloscope	TP5601			
2) Add 2.20 ± 0	.02 V to TP5611 <blbs></blbs>					
3.95 ± 0	.02 V to TP5610 <bhbs></bhbs>	DC power			65 mV	
by DC p	ower supply.	supply			90 IRE	
3) Confirm that	the signal level under 10 IRE and above					
80 IRE is inc	reased with above condition Fig-2				10 IRE 8 ch 160 mV	
4) Tum RV5601	<bl, gain=""> to the right direction and</bl,>			RV5601		
adjust so that '	'0 IRE~10 IRE"might be "160 ± 10 mV"					
	Fig-7					
5) Turn RV560	99 <bh, gain=""> and adjust so that</bh,>			RV5609		
"90 IRE~100	IRE" might be " $65 \pm 10 \text{ mV}$ "					
(RV5609 can	be adjusted at mechanical center of the				20:002 Vp-p	
VR to obtain	above metioned condition. In case that				Fig-8	
"100 IRE~G1	ND" is above 3.7 V Adjustment is N.G)				QND	
	Fig-7					
(6) IC level adjustme	ent (R ch)					
1) Change to "V	VIDE Mode".					
2) Input PAL do	puble speed signal 10 step waveforms.	PAL double				
	Fig-8	speed signal 10			<u> </u>	
3) Add 0 V to	TP5211 <rlbs> and 9 V to TP5210</rlbs>	step (Pedestal				
<rhbs> by</rhbs>	DC power supply.	2.7 V)			R ch 6.2 ± 0.02 Vp-p	
4) Adjust the le	vel by RV5205 <r-gain> as "0 IRE~</r-gain>				G ch 9.6 ± 0.02 Vp-p	
100 IRE" on	TP5203 $<$ R-sig2 $>$ is 1.50 \pm 0.02 Vp-p.	DC power	TP5203	RV5205	B ch 6.7 ± 0.02 Vp·p	
	Fig-9	supply				
5) Adjust by R	V5206 <r-bias> so that "Positive po-</r-bias>			RV5207	B ch 1.50 ± 0.02 Vp-p	
larity 0 IRE~	Negative polarity 0 IRE" might be $6.2 \pm$				Fig-9	
0.02Vp-p.	Fig-9				, ig 5	
6) By RV520	3 <r-s, gain1="">, RV5207 <r-s,< td=""><td></td><td></td><td></td><td></td></r-s,<></r-s,>					
BIAS1>, adj	ust the waveform for TP5202 <r-sig1></r-sig1>		TP5202			
to the wavefo	orm TP5203 <r-sig2>. (within± 0.02 V)</r-sig2>	•	TP5203			

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION		ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER		
7) By RV5204 <r-s, gain2=""> & RV5208 <r-s,< th=""><th></th><th>TP52</th><th>03</th><th>RV5204</th><th></th><th></th></r-s,<></r-s,>		TP52	03	RV5204			
BIAS2>, adjust the waveform for TP5204 <r-sig3> to</r-sig3>		TP52	.04	RV5208			
the waveform for TP5203 < R-sig2>. (within $\pm 0.02 \text{ V}$)				R ch	G ch	B ch	
Fig-9			-Sig 1	TP5202	TP5402	TP5602	
 Confirm that the waveform for TP5203 <r-sig2> is within standard mentioned.</r-sig2> 			-Sig 2	TP5203	TP5403	TP5603	
			-Sig 3	TP5204	TP5404	TP5604	
(7) IC Level Adjustment (G ch)			LBS	TP5211	TP5411	TP5611	
1) Proceed 4)~8) by the same way as R ch.			HBS	TP5210	TP5410	TP5610	
Proceedure 3) to add external voltage must not be done.		-	-GAIN	RV5205	RV5405	RV5605	
As for "related VR" and "output terminal" please re-		1		RV5206	RV5406	RV5606	
fer to the Fig.		-	-BIAS	RV5208	RV5403	RV5603	
		-	-S.GAIN 1	K V3203	R V3403	K V 3003	
(8) IC Level Adjustment (B ch)			-S.BIAS 1	RV5207	R V5407	RV5607	
1) Proceed 3)~8) by the same way as R ch.			-S.GAIN 2	RV5204	RV5404	RV5604	
As for "related VR" and "output terminal" please re-			-S.BIAS 2	RV5208	RV5408	R V 5608	
fer to the Fig.		-			<u> </u>	1	
(9) V com Adjustment	Oscilloscope						
1) Change to "WIDE Mode".							
2) Input PAL double speed signal 10 steps waveform.	PAL double	TP52	03	RV5211			
Fig-10	speed signal 10						
3) Measure the voltage on TP5203 (R ch out).	step				_		
4) Adjust RV5211 < RVCOM > so that the voltage on							
TP5205 < R-V comout> might be $-0.6 \text{ V} \pm 0.02 \text{ V}$.		TP52	05		ے ا	2.0 ± 0.02 Vp-p	
5) Measure the voltage on TP5403 (G ch out).		TP54	03				
6) Adjust RV5411 < GVCOM > so that the voltage on				RV5411	'	2.7 ± 0.02 V	
TP5405 (G-V com out) might be -0.5 ± 0.02 V.					GND		
7) Measure the voltage on TP5603 (B ch out).		TP56	03				
8) Adjust RV5611 <bvcom> so that the voltage on</bvcom>		TP56	05	RV5611	Fi	g-10	
TP5605 < R-V com out> might be $-0.8 \text{ V} \pm 0.02 \text{ V}$.		1					

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 A BOARD ADJUSTMENT Pre-adjustment on "2G" output level. Change following two data as follows. CXA1839 "22 DC Tran" 1→0	Oscilloscope	TP1002	CXA1839 "22DC Tran" "23Dyn PIC" CXA1839Q "3.Sub-CON1"	0 IRE 2.4 V P.P DC COND.
 HUE, COLOR Adjustment Input 75% full field color bar to Video INPUT 1. Adjust CXA1839Q "2. Sub COL1" so that the peak level for 2 pulse on both right and left side on TP1003 "2B" can be equal. Adjust CXA1839Q "9. Sub HUE" so that the peak level of 2 pulse in the center on "2B" can be equal. Return following two data. CXA1839 "22 DC Tran: 0→1 "23 Dyn PIC: 0→1 	Oscilloscope	TP1003	CXA1839Q "2. Sub COL1" CXA1839Q "9. Sub HUE"	Adjust '2. SCL1' Adjust '9. SHUE'

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
SUB BRT, SUB PIX ADJUSTMENT (1) Sub BRT Adjustment 1) Input 10 step signal to Video, 1 picture mode: smart Setup as follows PIX=90% COL=50% BRT=50% SHP=50% 2) Change two data as follows. CXA1839 "22 DC Tran"1→0 "23 Dyn PIC" 2→0 3) Connect Oscilloscope to TP5403. 4) Adjust B with CXA2011 "3. Sub Bright" as 8.2 V ± 0.02 V. 5) Adjust A with CXA2011 "1. Drive Level" as 2.9 V ± 0.02 Vpp. 6) Return following data as follows.	10 step signal Oscilloscope	TP5403	CXA1839 "22 DC Tran" "23 Dyn PIC"	
CXA1839 "22 DC Tran" 0→1 CXA1839 "23 Dyn PIC" 0→2				

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 WHITE BALANCE ADJUSTMENT Keep set with aging condition more than 15 min. Change to following data.	30 IRE Flat filed signal 70 IRE Flat field signal		CXA2011 12R cutoff 14B cutoff CXA2011 9R Drive	Standard X=0.2952 with in 4JND Y=0.3047 Standard
"10G Drive" should be fixed by "31") 7) Repeat 3)~6) and trucking and adjust so that both 30 IRE, 70 IRE is within standard. 8) Input 20 IRE flat fild signal. 9) Adjust with CXD2412 "7. RL Bias" or "6. BL Bias" so that can approach to adjusting center the most. 10) Return following two data. CXA1839 "22. DC Tran"→0 "23. Dyn PIC" →2	20 IRE Flat fild signal		CXD2412 7. RL Bias 6. BL Bias	X=0.2952 Y=0.3047 with in 5JND Adjustment Center X=0.2952 Y=0.3047
11) Confirm that color from 0 to 100 IRE each steps on the screen should be uniform and it does not differ much from other part.	PAL 10 step signal			

SONY. **SERVICE MANUAL**

LE-1 CHASSIS

MODEL

DEST. COMMANDER

RM-838

RM-838

AEP

KL-37W1K

KL-37W1U

KL-37W1

OIRT

RM-838 UK MODEL

COMMANDER DEST.

KL-50W1

RM-838

AEP

KL-50W1K

RM-838

OIRT

KL-50W1U

RM-838

UK

CORRECTION-1

SUBJECT: A CERTAIN FIGURE WAS MISSING, AND THEREFORE IT IS ADDED HERE.

File this CORRECTION-1 with the service manual.

: Indicates corrected portion

SECTION 3 CIRCUIT ADJUSTMENTS

3-1. ELECTRICAL ADJUSTMENTS (See page 22)

Service adjustment to this model can be performed with the supplied remote commander, RM-

HOT TO ENTER INTO SERVICE MODE

Turn on the main power switch of the set while pressing the + (plus) and - (minus) buttons on the customer front panel.

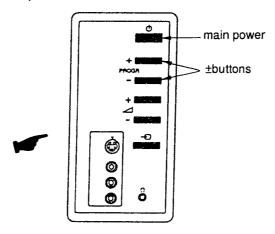


Fig. 4-1



9-965-115-91

SONY. SERVICE MANUAL

LE-1 CHASSIS

MODEL

COMMANDER DEST.

KL-37W1

RIVI-838 P

KL-37W1K

KL-37W1U

RM-838 AEP

RM-838 OIRT

RM-838 UK

MODEL

COMMANDER DEST.

RM-838

AEP

KL-5UVVI

KL-50W1K

KI -50W1U

RM-838

OIRT

RM-838 UK

CORRECTION-2

SUBJECT: CORRECTION OF REPAIR PART NO.

File this CORRECTION with the service manual.

: Indicates corrected portion

SECTION 5 EXPLODED VIEWS

5-3. SCREEN MIRROR BLOCK AND OPTICS UNIT

[KL-37W1/37W1K/37W1U] (See page 88)

Incorrect	Correct				
REF.NO. PART NO. DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK	
119 ▲1-473-544-13 OPTICAL UNIT		119 1-473-544-2	OPTICAL UNIT		

5-6. SCREEN MIRROR BLOCK AND OPTICS UNIT [KL-50W1/50W1K/50W1U] (See page 91)

Incorrect			Correct				
REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK		
119 1-473-544-13	OPTICAL UNIT		119 1-473-544-21	I OPTICAL UNIT			
300 - 100 -							

SECTION 6 ELECTRICAL PARTS LIST (See page 122)

Correct				
O. PART NO. DESCRIPTION REMARK				
MISCELLANEOUS				
Δ 1-473-544-21 OPTICAL UNIT				

